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Physical and acoustic properties of surface sediments collected with a 0.25-m^2 box core were measured from 45 stations in the Venezuela Basin. Samples were collected from three locations representing different sedimentary provinces in addition to transects between the locations. Location 1 (15°07'N, 69°22'W) was on the eastern slope of the Beata Ridge in 3950 m water depth. Sediments were pelagic foraminifera ooze. Location 2 (13°45'N, 67°45'W) was in

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the central Venezuela Basin in 5050 m water depth. Sediments consisted of interbedded turbidite and pelagic sediments. Location 3 (13°30'N, 64°45'W) was on the western flank of the Aves Ridge in 3500 m water depth. Sediments were predominantly hemipelagic in origin.

Values of porosity, grain size, percent $CaCO_3$, organic carbon and nitrogen, shear strength, color, compressional wave velocity, and attenuation were determined from 6.1 cm inside diameter cylindrical subcores. X-radiographs of 36 x 44 x 3 cm rectangular acrylic subcores were made to determine sedimentary/biological structure. Probes used to measure shear strength and compressional wave velocity were occasionally inserted into whole box cores for additional measurements. The color of freshly collected sediments from whole box cores was also noted.

In this report we present the entire data set in table form. Methods of collection and subsequent laboratory and computational analysis are presented in detail. The data presented here will be the subject of more detailed analysis in future publications.

NORDA Technical Note 238

Naval Ocean Research and
Development Activity
NSTL, Mississippi 39529

Physical and Acoustical Properties of Surface Sediment from Venezuela Basin: A Data Report

Kevin Briggs
Michael Richardson
Ocean Science Directorate
Oceanography Division

January 1984

EXECUTIVE SUMMARY

Physical and acoustic properties of surface sediments collected with a 0.25-m^2 box core were measured from 45 stations in the Venezuela Basin. Samples were collected from three locations representing different sedimentary provinces in addition to transects between the locations. Location 1 (15°07'N, 69°22'W) was on the eastern slope of the Beata Ridge in 3950 m water depth. Sediments were pelagic foraminifera ooze. Location 2 (13°45'N, 67°45'W) was in the central Venezuela Basin in 5050 m water depth. Sediments consisted of interbedded turbidite and pelagic sediments. Location 3 (13°30'N, 64°45'W) was on the western flank of the Aves Ridge in 3500 m water depth. Sediments were predominantly hemipelagic in origin.

Values of porosity, grain size, percent $CaCO_3$, organic carbon and nitrogen, shear strength, color, compressional wave velocity, and attenuation were determined from 6.1 cm inside diameter cylindrical subcores. X-radiographs of 36 x 44 x 3 cm rectangular acrylic subcores were made to determine sedimentary/biological structure. Probes used to measure shear strength and compressional wave velocity were occasionally inserted into whole box cores for additional measurements. The color of freshly collected sediments from whole box cores was also noted.

In this report we present the entire data set in table form. Methods of collection and subsequent laboratory and computational analysis are presented in detail. The data presented here will be the subject of more detailed analysis in future publications.

ACKNOWLEDGMENTS

The authors wish to acknowledge the assistance of the ships' captains and crews of the R/V GYRE (cruise 79G7), USNS LYNCH (cruise 708-80), and USNS BARTLETT (cruise 1301-82). We also wish to thank all of the scientific colleagues who participated in the aforementioned cruises. Without their support a project of this scope would have been impossible. Thanks to David C. Young, Frank Carnaggio, and James Matthews for designing and fabricating the compressional wave velocity probes. Special thanks are extended to Skidaway Institute of Oceanography and Steve Bishop, in particular, for use of the CHN analyzer and to NAVOCEANO for the training and use of the Micromeritics Particle Size Analyzer. We thank Richard Ray for the compilation of data exhibited in Appendix A and David K. Young for careful review of the manuscript. This work was supported by Program Element 61153N; Ralph R. Goodman and James E. Andrews, Program Managers.

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I. INTRODUCTION

This report presents data on the horizontal and vertical distribution of surface sediment physical and acoustic properties. The data was collected in an investigation of the effects of biological processes on the physical and acoustic properties of deep-sea sediments. Results from the biological collections will be included in subsequent reports. The entire data set on the following sediment properties is printed in the form of tables: porosity, grain size distribution, percent calcium carbonate ($CaCO_3$), organic carbon and nitrogen, shear strength, color, and sedimentary/biological structure, sediment compressional wave velocity, and attenuation. Methods of collection and subsequent laboratory and computational analysis are presented in detail. The data presented here will be the subject of more detailed analysis in future publications. The purpose of the report is to make the bulk of the sediment data available as rapidly as possible to others involved with this study.

II. MATERIALS AND METHODS

A. Site Selection

Three locations representing different sedimentary provinces in the Venezuela Basin were selected for study (Fig. 1). Location 1 was on the eastern part of the Beata Ridge (15°07'N, 69°22'W) in 3950 m water depth. Sediments were pelagic foraminifera ooze. Location 2 was in the central Venezuela Basin in 5050 m water depth and centered about 13°45'N, 67°45'W. Sediments were interbedded turbidite depositions and pelagic sediments. Location 3 was on the eastern flank of the Aves Ridge in a hemipelagic sedimentary province in 3500 m water depth and centered about 13°30'N, 64°45'W.

A total of 99 stations were occupied consisting of: 19 box cores, eight trawls, and one dredge haul at location 1; 23 box cores and nine trawls at location 2; 18 box cores and eight trawls at location 3; three box cores along a transect between locations 1 and 2; five box cores along a transect between locations 2 and 3; and five trawls collected about 130 km north of location 2. A listing of the depth, latitude, longitude, date, and time (GMT) of each box core sample is

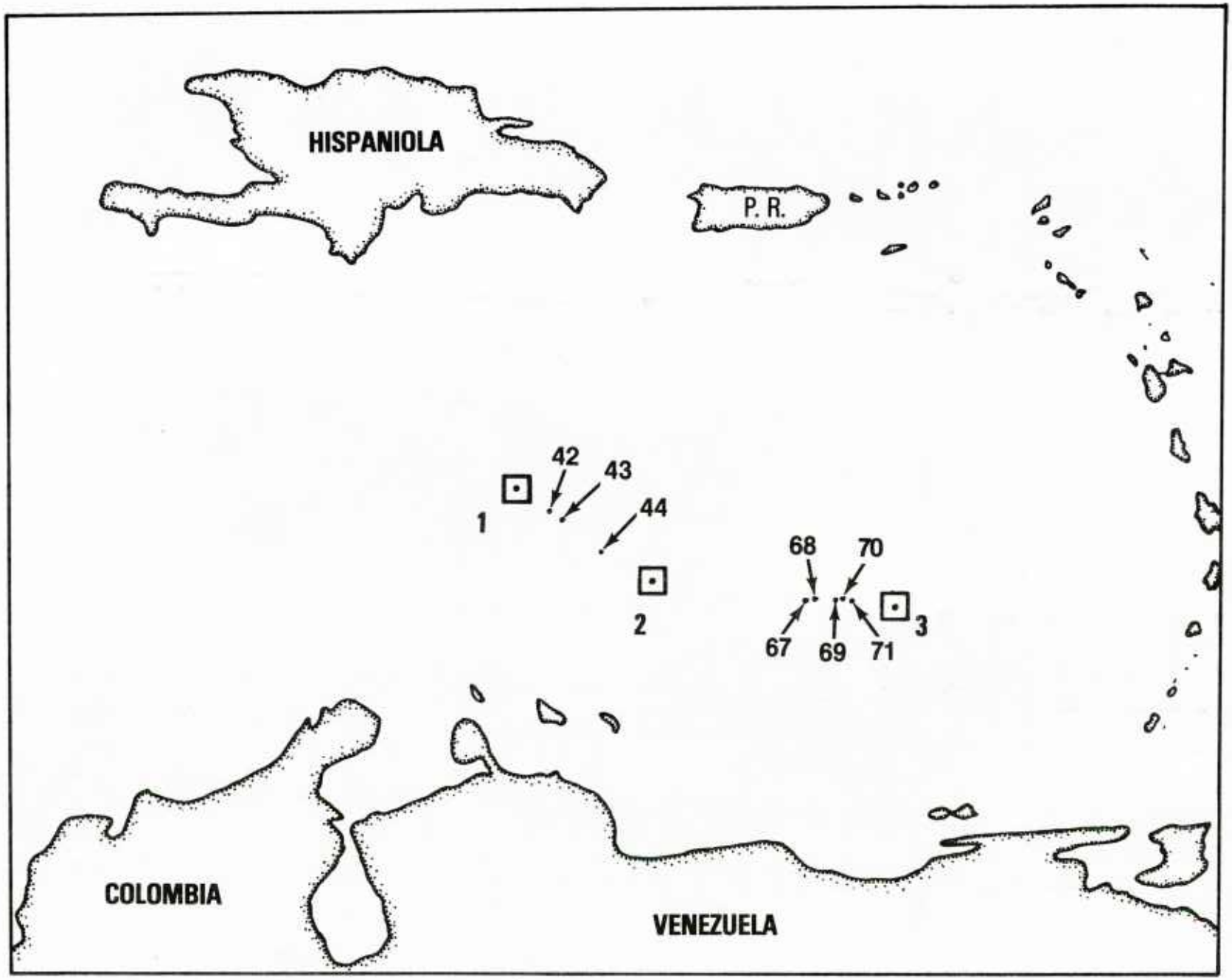

Figure 1. Location of sampling sites in the Venezuela Basin

presented in Table 1. Data pertinent to the trawl and dredge hauls will be presented in subsequent publications.

Samples were collected on three oceanographic cruises. Stations 1-6 were occupied from the R/V GYRE, cruise 79G7, which departed Panama City, Panama, on 10 November 1979 and terminated at Santo Domingo, Dominican Republic, on 26 November 1979. Stations 7-19 were occupied from the USNS LYNCH, cruise 708-80, which departed Roosevelt Roads, Puerto Rico, on 2 July 1980 and returned on 28 July 1980. Stations 20-99 were occupied from the USNS BARTLETT, cruise 1301-82, which departed Roosevelt Roads, Puerto Rico, on 14 October 1981 and returned on 8 December 1981.

B. Field Collection

Sediments were collected with the 0.25-m^2 MK III box corer depicted in Figure 2A-D. The design and function of the box corer were essentially the same as the box corer described by Hessler and Jumars (1974) with two exceptions: (1) the safety bar holding the release bolt was triggered by the downward fall of the column through the frame sleeve that released a lever holding the safety bar (this safety acted to prevent accidental triggering of the spade arm on deck or while the box corer was in transit to the bottom), and (2) spring-loaded doors at the top of the core box replaced the screened vents and flapper valves. A pinger, fastened on the wire 25 m from the box corer, was used to monitor sample collection on a Line Scan Recorder. Box core descent was approximately 50 m/min until the sampler was 50 m from the bottom. The box core was then lowered into the bottom as slowly as weather conditions permitted (10-25 m/min). The box core was retrieved at 50-75 m/min.

The box cores containing undisturbed surface sediment with overlying water together with the attached spade arm were carefully removed from the coring device. Cylindrical subcores (6.1-cm inside diameter and 46-cm length) and/or 36 cm (width) x 3 cm (thickness) x 44 cm (length) acrylic subcores were used to collect subsamples of the sediment. Extreme care was exercised to obtain relatively undisturbed subsamples with the sediment-water interface preserved intact within the subcores. In order to obtain undisturbed samples of the pelagic and turbidite layers at location 2, a second set of subcores was taken after manual removal of overlying sediment layers that had high shear strength and resistance to core penetration.

Table 1. Location, depth, date, and time of collection for the 68 box core stations occupied in the Venezuela Basin. Station listings do not include the 30 trawl hauls and dredge haul.

Station	Depth (m)	Latitude	Longitude	Date	GMT
1*	3958	15°08.3'N	69°24.6'W	15 Nov 79	0226
2	3958	15°08.3'N	69°24.6'W	15 Nov 79	1018
3	3958	15°14.7'N	69°14.7'W	15 Nov 79	1535
4*	3958	15°08.3'N	69°24.6'W	15 Nov 79	2223
5	3958	15°35.5'N	69°17.3'W	16 Nov 79	0320
6*	3958	15°08.3'N	69°24.6'W	16 Nov 79	1820
7*	5058	13°49.6'N	67°45.0'W	6 Jul 80	0105
8*	5059	13°48.4'N	67°40.7'W	7 Jul 80	1224
9	5054	13°46.6'N	67°45.2'W	8 Jul 80	0001
10*	5056	13°43.7'N	67°43.5'W	8 Jul 80	2103
11#	5060	13°46.0'N	67°49.7'W	23 Jul 80	0345
12#	5060	13°46.7'N	67°46.8'W	23 Jul 80	0842
13#	5060	13°49.4'N	67°42.7'W	23 Jul 80	1516
14	5054	13°50.6'N	67°39.0'W	23 Jul 80	2050
15*	5060	13°45.4'N	67°47.8'W	24 Jul 80	0752
16	5054	13°45.0'N	67°40.4'W	24 Jul 80	1620
17	3517	13°32.8'N	64°45.7'W	25 Jul 80	2150
18	3517	13°25.6'N	64°47.7'W	26 Jul 80	1143
19*	3514	13°25.1'N	64°51.0'W	26 Jul 80	1508
20*	3934	15°05.2'N	69°22.8'W	17 Oct 81	2335
21	3937	15°07.6'N	69°24.1'W	18 Oct 81	2053
22	3934	15°07.3'N	69°22.9'W	19 Oct 81	0241
23	3933	15°07.0'N	69°24.0'W	19 Oct 81	1223
24	3936	15°06.1'N	69°24.2'W	19 Oct 81	1606
25*	3934	15°07.9'N	69°22.7'W	19 Oct 81	2114
26	3940	15°06.4'N	69°22.3'W	21 Oct 81	0902
27*	3935	15°07.9'N	69°20.6'W	21 Oct 81	2342
28	3949	15°07.4'N	69°20.0'W	22 Oct 81	1236
29	3959	15°03.5'N	69°21.6'W	23 Oct 81	0340
30	3945	15°09.0'N	69°34.2'W	23 Oct 81	0845
31	3949	15°04.3'N	69°19.7'W	23 Oct 81	1234
32	3945	15°00.9'N	69°17.8'W	23 Oct 81	1637
42	4322	14°50.8'N	68°59.7'W	29 Oct 81	1659
43	4493	14°45.1'N	68°52.1'W	29 Oct 81	2336
44	4805	14°19.8'N	68°22.2'W	30 Oct 80	0958

* = macrofauna box core
# = disturbed box core, no subsamples collected

Table 1 (continued)

Station	Depth (m)	Latitude	Longitude	Date	GMT
45*	5065	13°53.1'N	67°44.9'W	31 Oct 81	0210
46	5053	13°50.5'N	67°47.7'W	31 Oct 81	2104
47	5049	13°44.4'N	67°48.3'W	1 Nov 81	0305
48	5049	13°44.1'N	67°48.8'W	1 Nov 81	0808
49*	5052	13°37.4'N	67°50.5'W	1 Nov 81	1630
50	5052	13°52.2'N	67°48.3'W	2 Nov 81	0612
51	5049	13°44.9'N	67°48.0'W	2 Nov 81	1226
52*	5052	13°49.5'N	67°50.3'W	2 Nov 81	1825
53	5049	13°47.3'N	67°47.9'W	3 Nov 81	0836
54	5052	13°43.0'N	67°44.8'W	3 Nov 81	1434
55	5050	13°46.4'N	67°47.7'W	3 Nov 81	2149
56*	5049	13°46.6'N	67°47.7'W	4 Nov 81	0741
57	5046	13°42.9'N	67°47.6'W	4 Nov 81	1747
67	4749	13°35.9'N	65°52.1'W	18 Nov 81	0646
68	4447	13°34.0'N	65°45.0'W	18 Nov 81	1429
69	4188	13°34.7'N	65°28.6'W	18 Nov 81	2200
70	3937	13°33.9'N	65°24.2'W	19 Nov 81	0415
71	3775	13°31.6'N	65°10.8'W	19 Nov 81	1057
72*	3476	13°29.6'N	64°45.2'W	20 Nov 81	0522
73	3542	13°33.6'N	64°42.1'W	20 Nov 81	2135
74	3503	13°32.6'N	64°44.0'W	21 Nov 81	0218
75*	3506	13°32.1'N	64°42.5'W	21 Nov 81	0934
76	3490	13°33.8'N	64°41.4'W	21 Nov 81	1934
77	3477	13°28.5'N	64°40.8'W	22 Nov 81	0207
78*	3447	13°32.7'N	64°43.0'W	22 Nov 81	0646
79	3495	13°33.4'N	64°43.3'W	22 Nov 81	2320
80	3429	13°32.3'N	64°32.9'W	23 Nov 81	0415
81*	3437	13°26.2'N	64°38.1'W	23 Nov 81	0921
82	3433	13°35.6'N	64°40.3°W	23 Nov 81	1954
83*	3464	13°23.0'N	64°26.3'W	24 Nov 81	0202
84*	3487	13°28.8'N	64°44.0'W	24 Nov 81	0745
85*	3472	13°30.1'N	64°40.2'W	24 Nov 81	1210
86	3440	13°32.1'N	64°39.6'W	25 Nov 81	0013

* = macrofauna box core

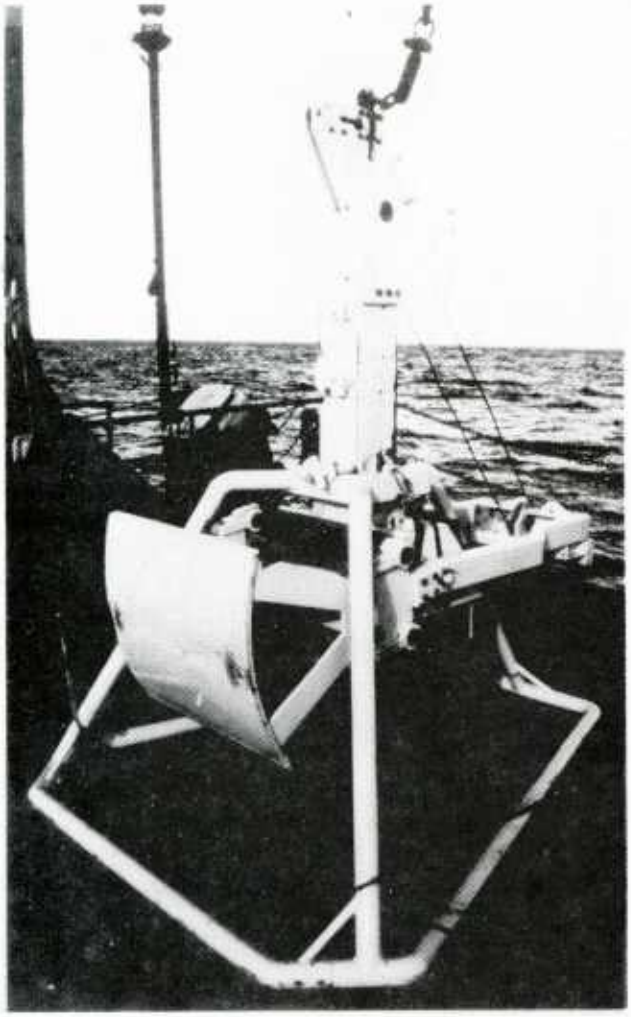

Figure 2A. MK III box corer ready to deploy

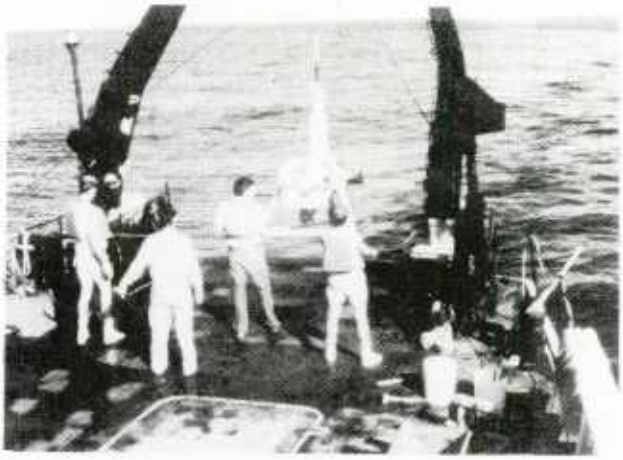

Figure 2B. Deployment of box corer from rear U-frame of USNS BARTLETT

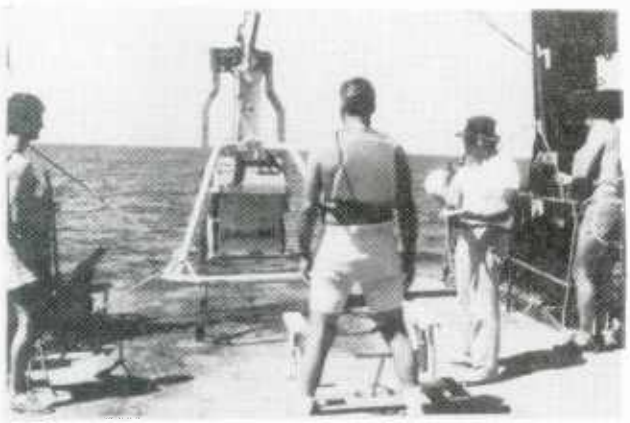

Figure 2C. Retrieval of box corer containing bottom sediment sample

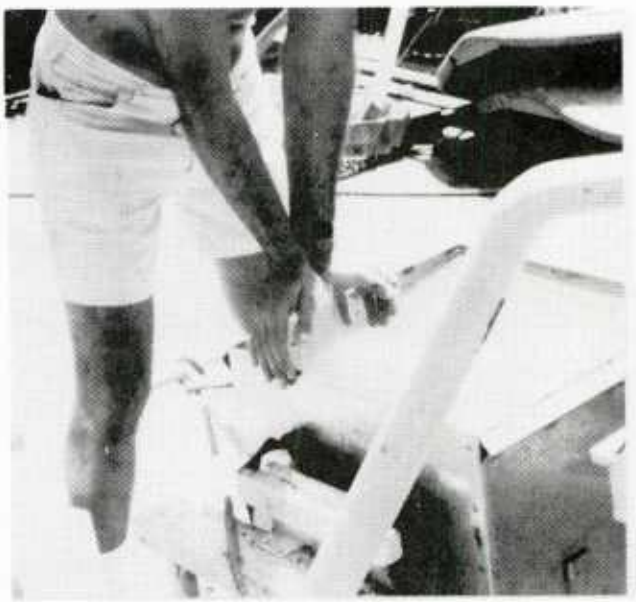

Figure 2D. Subcoring of box core sample after detachment of box core and spade from box corer with aid of cart

One to 24 subcores were collected from each box core (except from stations 11, 12, and 13 which were disturbed samples). A listing of subcores by type of analysis is presented in Table 2. Some subcores were used for more than one type of analysis (e.g. compressional wave velocity and shear strength). Because of the dual-use of subcores, there will appear to be a disparity between the total number and the sum of the individual subcores. Those collected for analyses by workers outside of NORDA (i.e. benthic foraminifera: Barun Sen Gupta, LSU; meiofauna: Donald Woods, U. of Alabama; muramic acid: David White, FSU; microfaunal lipids: H. Rodger Harvey, U. of Georgia; radionuclide distribution: David Schink and Norman Guinasso, Texas A&M) will be the subject of subsequent publications.

C. Field Analysis

Sediment acoustic measurements were made utilizing three different types of apparatus: probes inserted into undisturbed box cores, USI-103 transducer-receiver head with the USI-103 sediment velocimeter, and USI-103 transducer-receiver head with different electronic components.

Replicate series of compressional wave velocity measurements were made at 0.5-cm intervals in four undisturbed box cores using the probes described in Figures 3 and 4. A Tektronix PG 501 Pulse Generator was used to trigger a Tektronix FG504 Function Generator and a Hewlett Packard 1743A dual-time interval Oscilloscope (Fig. 3). The Tektronix FG504 Function Generator drove the compressional wave transducer with a 70-kHz sine wave triggered for 10 μsec duration every 2 msec. The electrical energy was transferred into mechanical energy using a piezoceramic thin sheet transducer (12.7-mm long, 2.5-mm wide, and 0.25-mm thick) cut from a G1195 series thin sheet manufactured by Gulton Industries. The transducer was epoxied at one end into a 15-mm long, 10-mm wide window machined into a 2.4-mm thick Phenolic Sheet and potted with Scotch Cast 8 (Fig. 4).

Compressional waves propagated through the sediments to two compressional wave receivers that were built as identically as possible to the compressional wave transducer. The mechanical energy was transferred into electrical energy by the piezoceramic receivers, amplified (20-dB gain) by Burr-Brown 3622K Differential amplifiers, and filtered by Krohn-Hite Model 3100R Band-Pass Filters (1-1000 kHz low cut-off and high cut-off frequencies) set in the maximum flat butterworth

Table 2. Listing of subcores collected from the 45 box core samples obtained for physical/acoustic property analyses

STATION	2	3	5	9	14	16	17	18	21	22	23	24	26	28	29	30	31	32	42	43	44	46	47	48
NORDA																								
TOTAL SUBCORES	0	10	8	2	15	12	3	1	8	3	3	7	5	2	7	7	2	1	10	11	11	5	3	9
Acoustic		5	5	2	15	12	3	1	5	1	2	4	4	2	4	6	2		5	5	5	2	2	9
Physical		5	4	2	3		3	1					2	1			1			1	1	1	1	
Shear Strength									1		1			1	2	5	1		3	3	3	1	1	6
X-ray boxes										2			1			1								
Organic		3							3			3			3				3	3	3	3		
Geotechnical											1							1	2	3	3		1	
Outside NORDA																								
TOTAL SUBCORES	3	3	3	6	5	6	8	5	13	0	0	13	0	0	14	0	0	0	13	11	12	14	0	0
Sen Gupta									4			4			4				4	4	4	4		
Woods		3	3	3	5	5	5	5	5			5			5				3	3	3	5		
White									2			2			2				2	2	2	2		
Harvey									2			2			3				4	2	3	3		
Schink and Guinasso	3			3		1	3																	
Measurements on Whole Box Cores																								
Acoustic probes										2							4							4
Shear strength (torque gauge)											6			6			6							5

Table 2 (continued)

STATION	50	51	53	54	55	57	67	68	69	70	71	73	74	76	77	79	80	82	86
NORDA																			
TOTAL SUBCORES	3	9	7	9	0	2	8	8	8	8	8	5	6	5	6	5	7	2	1
Acoustic		4	4	4			5	4	4	4	4	2	3	2	2	2	3	2	
Physical		2	2	2			1	1	1	1	1				1		1	1	
Shear Strength		2	2	2			4	3	3	2	3	1	2	1	1	1	2	1	
X-ray boxes		3		3									3		2		2		
Organic	3	2	3	2		1	1	2	2	2	2	3		3		3			
Geotechnical						1	2	2	2	2	2				2		2		1
Outside NORDA																			
TOTAL SUBCORES	13	2	13	0	0	0	11	11	11	11	11	13	0	13	0	13	0	0	0
Sen Gupta	4		3				4	4	4	4	4	4		4		4			
Woods	5		5				3	3	3	3	3	5		5		5			
White	2		2				2	2	2	2	2	2		2		2			
Harvey	2	2	3				2	2	2	2	2	2		2		2			
Schink and Guinasso																			
Measurements on Whole Box Cores																			
Acoustic probes																		4	
Shear strength (torque gauge)					6								6				6	6	

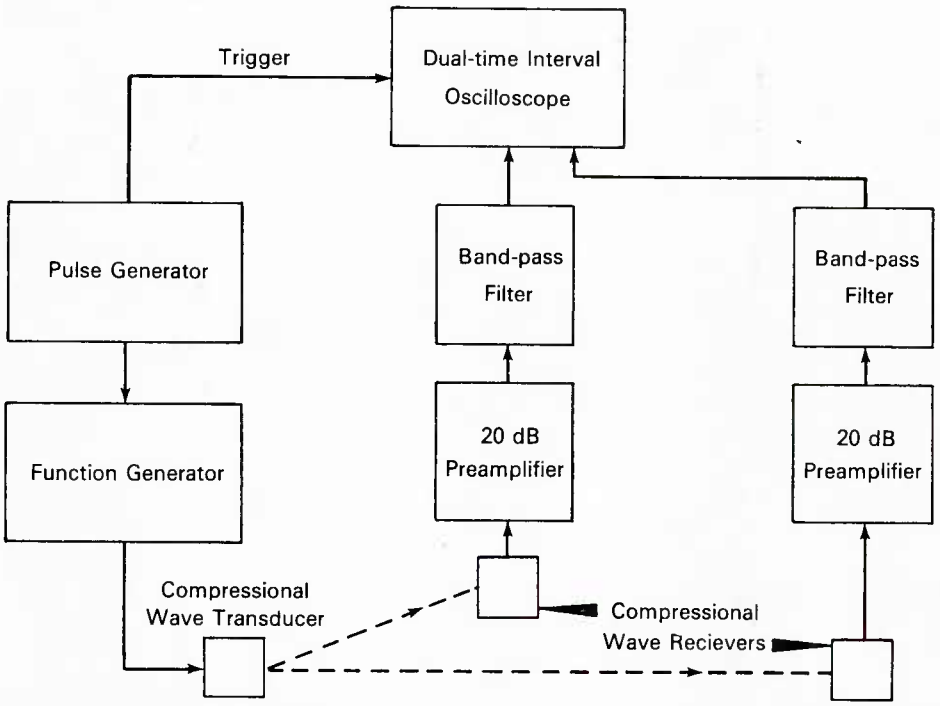

Figure 3. Block diagram of compressional wave velocity probe measuring system

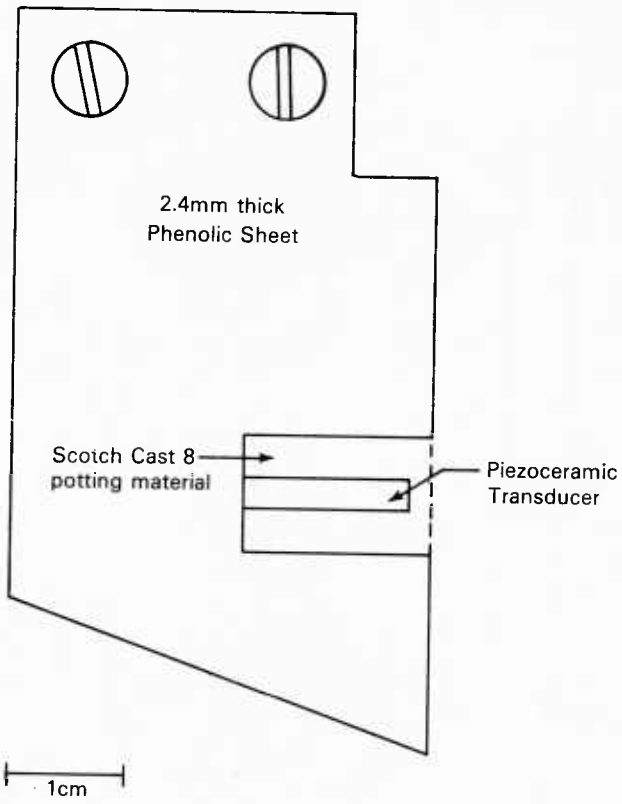

Figure 4. Line drawing of compressional wave velocity probes

position. The time delay (Δt) between the two, amplified, filtered, received signals was measured with the Hewlett-Packard Oscilloscope.

The first "Δt" measurement for each series was made in the water overlying the sediment-water interface. The difference in the distance between the transducer and the two receivers was calculated from the "Δt" measurement and the compressional wave velocity for sea water (calculated from MacKenzie, 1982) given temperature, salinity, and depth. Temperature and salinity of the overlying water were measured with a YSI Model 43TD temperature probe and an AO Goldberg temperature-compensated, salinity refractometer. The difference in distance between probes was assumed to remain the same during any series of measurements. Time delay (Δt) measurements were made at 0.5-cm intervals as the probes were inserted into the sediment. Simultaneous sediment temperature measurements were made with a YSI Model 43TD temperature probe. Compressional wave velocity at each depth was calculated from the difference in distance between the transducer and receivers and the measured time delay.

Values of compressional wave velocity were determined for sediment in the cylindrical core liners (stations 9, 14, 16, 17, and 18) with an Underwater Systems, Inc. (Model USI 103) Sediment Velocimeter. Time delay measurements made on distilled water through the core liner were compared to similar time delay measurements on the sediment sample to determine sediment compressional wave velocity using the following formula:

$$V_p = \frac{V_w}{1 - \left[\frac{\Delta t V_w}{d}\right]} \qquad (1)$$

where V_p is the measured sound velocity through sediment (m/sec); V_w is the measured sound velocity through distilled water (m/sec); Δt is the measured time arrival of sound through distilled water minus the time arrival through sediment (sec); and d is the inside diameter of the core in meters.

Values of sediment compressional wave velocity and attenuation were determined at 1-cm intervals in the core samples collected at stations 21-84 with an Underwater System, Inc. (Model USI-103) transducer-receiver head. A Tektronix PG501 Pulse Generator, FG504 Function Generator, Krohn-Hite 3100R Band Pass Filter

and a Hewlett Packard 1743A dual-time interval oscilloscope were substituted for the electronics unit and oscilloscope usually employed with the USI-103 Velocimeter (Fig. 5). These substitutes increased resolution of compressional wave velocity measurements and provided accurate measurement of receiver voltages required for attenuation measurements.

The temperature of the cylindrical subcores was equilibrated with laboratory temperature prior to measurement of compressional wave velocity (V_p). Temperature and salinity of the overlying water were measured with a YSI Model 43TD temperature probe and a Guildline Instruments 8400A laboratory salinometer.

Sediment compressional wave velocity was determined using equation 1. All sound velocities were calculated at the common temperature, salinity, and pressure (23°C, 35 $^{o}/_{oo}$, 1 atm) suggested by Hamilton (1971). All measurements taken with the USI-103 transducer-receiver head were made at 400 kHz. Attenuation measurements were calculated as 20 log of the ratio of the received voltage through distilled water versus receiver voltage through sediment. Attenuation measurements were extrapolated to a 1-m path length and reported as dB/m at 400 kHz (Hamilton, 1972). Attenuation was also expressed as a sediment specific constant (k):

$$\alpha = kf^n \qquad (2)$$

where α is the attenuation of compression waves in sediment (dB/m), f is the transmitted signal frequency (kHz), and n is a measure of frequency dependence. If n is assumed to be one (Hamilton, 1972), then the sediment specific constant (k) can be used to compare sediment attenuation to other sediment physical properties such as porosity and mean grain size without regard to the frequency at which the measurements were made.

Sediment shear strength was measured directly by a hand-held vane shear device in undisturbed box core samples and with a Wykeham-Farrance laboratory vane apparatus in cylindrical subcores. The hand-held vane shear device consisted of a 0-24 inch-ounce precision torque gauge equipped with a 1.89-cm high, 1.89-cm diameter or 2.54 x 2.54 cm vane, after the design of Dill and Moore (1965). The Wykeham-Farrance laboratory vane apparatus was equipped with a 1.26-cm high, 1.26-cm diameter vane. The torque required to shear the sediment was measured with both

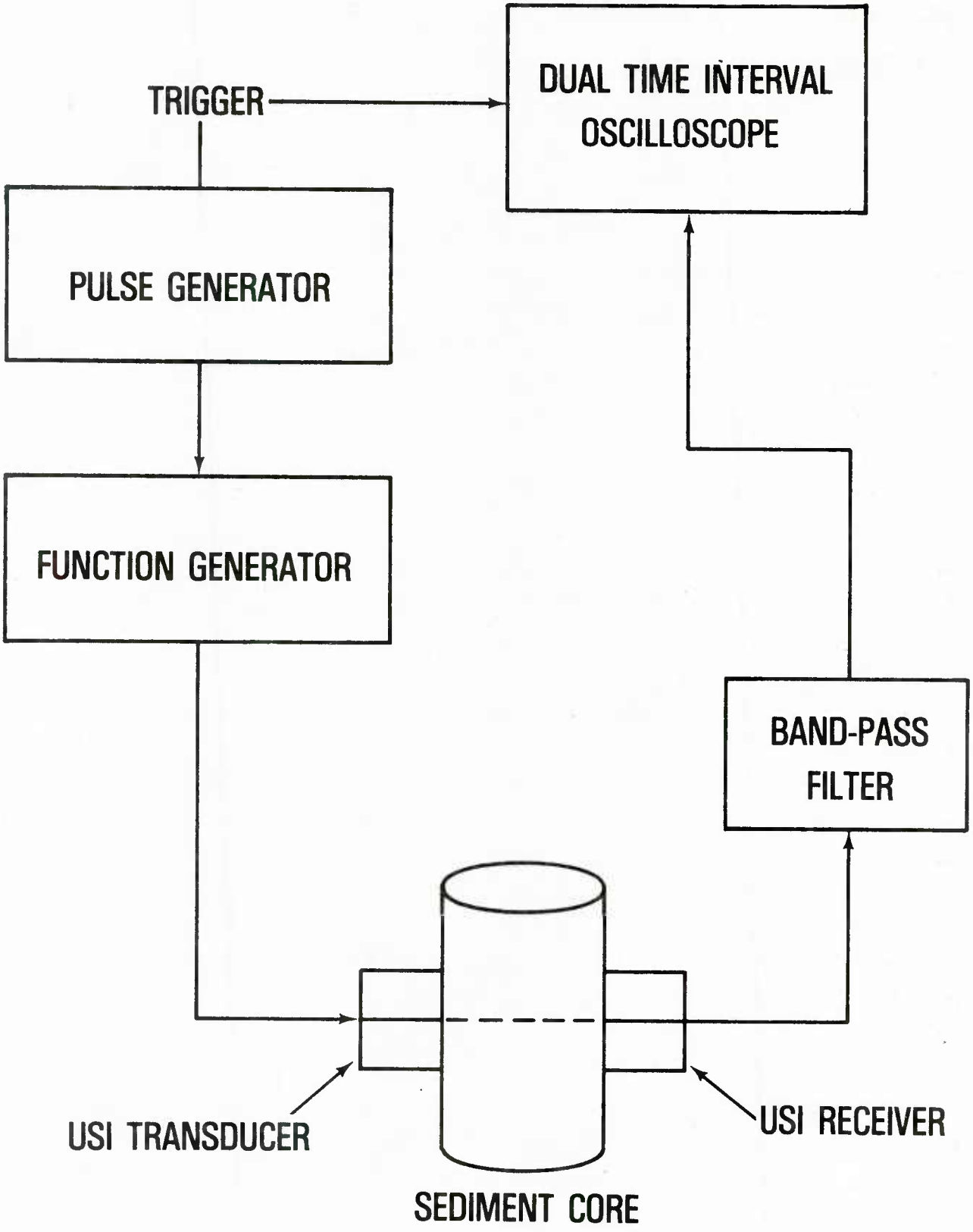

Figure 5. Block diagram of sediment core compressional wave velocity and attentuation measuring system

devices. The rotation rate for the Wykeham-Farrance vane was 84°/min, whereas the hand-held vane was rotated as slowly as possible, approximately 360°/min. Sediment shear strength (τ_f) was calculated from the torque required to shear the sediment (T) and the height (H) and diameter (D) of the vane using the following formula from Monney (1974):

$$\tau_f = \frac{T}{\pi\left(H\frac{D^2}{2} + \frac{D^3}{6}\right)} \qquad (3)$$

Hand-held torque measurements were made without regard to the resistance of the vane shaft to rotation in the sediment. Measurements were made every inch after additional insertion of the vane and its 50-cm shaft. Torque measurements made with the Wykeham-Farrance vane do not include the resistance of the vane shaft as part of the measurement. Sediment was extruded from the subcore after each torque measurement exposing fresh undisturbed sediment for the next measurement.

Color descriptions of collected sediment were made with the aid of Munsell® Soil Color Charts (1975). Depth profiles of hue, value, and chroma were determined for sediments after removing a side of the box core. Depth profiles of color were also determined for sediments extruded from subcores after vane shear measurement.

Sedimentary/biological structure was revealed by X-raying sediments collected with acrylic rectangular subcores. Rectangular cores were constructed of two 3-mm thick acrylic sheets (36 x 44 cm) separated by 6-mm thick acrylic sides (3-cm width). One face was sealed with silicone sealant and held together with stainless steel machine screws; the other face was sealed with neoprene and stainless steel machine screws. Two 19-mm diameter holes in the top of the core were used for displacement of air during core insertion. The holes were closed by means of neoprene stoppers after sediment collection. Bottom edges of the cores were beveled to improve penetration. The bottoms of the cores were sealed with rectangular acrylic boxes lined with cellular neoprene. Rubber straps held the bottoms fast to the cores.

The rectangular cores were X-rayed by placing a 35.3 x 42.8 cm sheet of Kodak AA industrial X-ray film on the back of each core and exposing it to 50 kV, 20 ma for 30 sec with a Kramex PX-20N portable X-ray unit (Rhoads et al., 1977). For

safety purposes, cores were X-rayed in a 1.6-cm thick plywood box lined with 1.6-mm thick lead sheeting.

D. Laboratory Analysis

All cylindrical core samples not extruded for sediment shear strength measurements were refrigerated or frozen for subsequent laboratory analysis. Refrigerated cores were used in determining sediment porosity, grain size, and percent calcium carbonate ($CaCO_3$). Organic and nitrogen determinations were made on sediment from frozen cores.

Cores were sectioned at 2-cm intervals by extruding the sediment with a plunger and slicing the exposed sediment off with a spatula. Immediately after sectioning, subsamples of extruded sediment for porosity determinations were placed in preweighed aluminum pans, weighed, dried in an oven at 105°C for 24 hr, cooled in a desiccator, and reweighed. Percent water was calculated by dividing the weight of evaporated water (difference between wet and dried sediment weights) by the weight of the dried solids and multiplying by 100. Using an average grain density value of 2.65 for noncarbonate sediment (location 2) and 2.70 for carbonate sediments (locations 1 and 3), porosity values were determined from tables relating porosity to water content (Lambert and Bennett, 1972). The values were not corrected for the salinity of pore water.

Grain-size analysis of sediment was accomplished essentially as described by Folk (1965). The silt and clay fractions from 4 to 10 ϕ(phi), however, were determined with a Micromeritics® Model 5000 Particle Size Analyzer rather than the standard pipette method. The sediment samples were soaked overnight in 200 ml of dispersant solution (2.5 g of sodium hexametaphosphate per liter of distilled water), then disaggregated by sonicating the sample with a cell disruptor for 12 min while stirring with a magnetic stirrer. The disaggregated sample was wet-sieved with dispersant through a 62-μm screen to separate the sand-sized fraction from the silt- and clay-sized fraction. The finer fraction was collected in a 1000-ml graduated cylinder, and enough dispersant was added to fill the graduated cylinder to 1000 ml. The coarser fraction was rinsed off the screen into a beaker with distilled water and then dried.

The dried, coarser fraction was fractionated into -3 to -2, -2 to -1, -1 to 0, 0 to 1, 1 to 2, 2 to 3, and 3 to 4 ϕ intervals with an ATM sonic sifter and each fraction was individually weighed to determine the sand-sized particle distribution. The silt- and clay-sized fraction was thoroughly agitated by vigorous stirring and aeration. A 20-ml aliquot sample representative of the total distribution of particles in suspension was pipetted from the graduated cylinder and into a preweighed beaker, dried in an oven, and weighed. After 5 days, 20-ml aliquot samples were pipetted from the appropriate depths in the graduated cylinder and into preweighed beakers, dried, and weighed to estimate the weight of clay-sized particles in the 10 to 11, 11 to 12, and 12 to 14 ϕ intervals. At the conclusion of six days of settling, all particles 10 ϕ and coarser were near the bottom of the graduated cylinder. At this time the supernatant was slowly siphoned into another graduated cylinder, leaving the settled particles and about 200 ml of dispersant. The supernatant volume was recorded. A 20-ml aliquot sample was pipetted from the supernatant after agitation, dried, and weighed to estimate the weight of the particles finer than 10ϕ. Finally, the sample remaining in the graduated cylinder was sonicated and stirred for 12 minutes in a beaker prior to size determination with the Micromeritics® analyzer. This particle size analyzer determines the concentration of silt- and clay-sized particles in liquid suspension at various depths in a sample cell by means of a finely-collimated, horizontal X-ray beam. The concentration was presented in the form of a cumulative "percent-finer-than" distribution trace in relation to the Stokesian diameter of the particles.

Sediment grain size distributions were analyzed with an HP 9825A desktop computer and plotted with an HP 9862A plotter (unpublished program is available on request from MDR). Data were plotted as weight percent histograms and cumulative weight percent for all phi-sizes through 14ϕ. The fraction finer than 12 ϕ was equally divided between the 12 to 13 ϕ and 13 to 14 ϕ intervals. Percentages of gravel (< -1.0 ϕ), sand (-1.0 to 4.0 ϕ), silt (4.0 to 8.0 ϕ), and clay (> 8.0ϕ) were tabulated. The mean phi, standard deviation, skewness, kurtosis, and normalized kurtosis were calculated according to the graphic formula of Folk and Ward (1957).

Percent $CaCO_3$ analysis was accomplished with a gasometric apparatus based on the design of Hulsemann (1966). Sediment subsamples were dried at 105°C for 24 hr,

ground in a mortar and pestle, and stored in a desiccator prior to analysis. A weighed portion (200-500 mg dry weight) of the subsample was added directly to a flask from the weighing paper, and the amount of sediment adhering to the paper was subtracted to obtain the exact weight. A magnetic stir bar was added to the flask, and the flask was attached to the apparatus by means of a silicone-greased, ground-glass connection and secured with a joint clamp. Next, a side arm with 5 ml of 4N hydrochloric acid (HCl) was attached in the same manner to the apparatus above the sample flask, and the system was closed off from atmospheric pressure by means of a three-way stopcock. Negative pressure in the system was created by lowering an open flask of mercury connected to a 100-ml burette. After the side arm containing the acid was rotated emptying its contents into the sample flask, the acidified sample was mixed with a magnet and heated with a Bunsen burner until the liquid bubbled up the sides of the flask. The system was allowed to come to thermal equilibrium with laboratory temperature before the mercury manometer was adjusted and the reading recorded. Barometric pressure was noted and recorded before and after each sample run. Two $CaCO_3$ standards were run at the beginning of the day to test for leaks in the system.

The volume of gas (CO_2) released was corrected to standard temperature and pressure and converted to carbonate as $CaCO_3$ by means of the formula:

$$\frac{VP}{TW} \times 0.1605 = \% \ CaCO_3 \qquad (4)$$

where V = observed volume of CO_2, P = corrected pressure, T = room temperature (°K), and W = weight of the sample in grams. Gas pressure was corrected for barometric pressure, water vapor pressure, and temperature. Duplicates from each depth in the core were analyzed. If values of duplicates differed by more than 2%, another replicate was run.

Frozen sediment cores for organic carbon and nitrogen analysis were thawed before extruding and sectioning at 2-cm intervals. Care in sectioning and sampling the core was exercised so that organic contamination (e.g. plastic core liner) was not introduced. The samples of the cores were refrozen and stored until analysis at a later date.

Thawed sediment samples were added to preweighed, precombusted (475°C) beakers and dried at 90°C for 24 hr. After cooling in a desiccator the samples were reweighed and ground to a fine powder in a clean mortar and pestle. Calcium carbonate was removed from the samples by adding excess (approx. 110%) 4N HCl. The amount of acid added was determined a priori from percent $CaCO_3$ analysis of separate sediment cores. After 12 hr, the acidified samples were brought to seawater pH (8.2) by adding 8N sodium hydroxide (NaOH). A Corning Model 125 pH meter with a calomel reference electrode (ceramic-type junction) was used to monitor pH. Samples were dried at 90°C for 24-36 hr, cooled in a desiccator, then weighed to determine the reacted weight. Finally, the dried samples were ground in a clean mortar and pestle, added to clean vials, sealed, and weighed.

Immediately before weighing a subsample of finely-ground sediment for analysis, the vial was weighed again to correct for absorbed water. Any additional weight due to water absorption was added to the reacted weight value. The subsample (20,000-45,000 μg) was weighed in a precombusted (475°C) aluminum boat and loaded into a Perkin-Elmer Model 240 CHN analyzer for determination of organic carbon and nitrogen. Duplicates from each depth in the core were analyzed. Additional replicates were run if values of duplicates differed by more than 2%.

III. RESULTS

The bulk of data in this report is presented in five appendices. Appendix A contains data on the following sediment acoustic and physical properties: compressional wave velocity (V_p), compressional wave velocity ratio (V_p ratio), compressional wave attenuation (k), porosity, percent calcium carbonate ($CaCO_3$), percent organic carbon (C), percent organic nitrogen (N), shear strength, percent sand, percent silt, percent clay, mean ϕ (phi), standard deviation, skewness, kurtosis and normalized kurtosis. Sample designator consists of station number followed by subcore number (e.g. 3-4 designates the fourth subcore collected at station 3).

Appendix B contains frequency histograms of grain size distribution data. Grain size data were plotted as weight percent histograms and cumulative weight curves for phi sizes -4 through 14. Also included are percentage gravel, sand,

silt, and clay and mean phi, standard deviation, skewness, kurtosis, and normalized kurtosis.

X-radiographs of sediments collected with the 36 x 44. x 3 cm rectangular subcores are presented in Appendix C. X-radiographs depict sedimentary/biological structure from eight stations and include X-radiographs from all three locations. Images are "positives" produced from the developed X-ray transparency, and thus darker areas of the X-radiograph denote areas of greater sediment density.

Color descriptions of sediments are presented in Appendix D. Color descriptions are depicted as both Munsell® hue/value/chroma designations and soil color names. The "hue" refers to red, yellow, green, blue, and purple. The "value" refers to lightness. The "chroma" refers to strength (departure from a neutral of the same lightness). All descriptions are for sediments collected with subcores except at station 31 where the color was described from a freshly opened box core.

Compressional wave velocity probe measurements are presented in Appendix E.

Appendix F contains sediment shear strength values measured with the hand-held vane shear device.

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APPENDIX A
SEDIMENT ACOUSTIC AND PHYSICAL PROPERTY DATA FROM BOX CORES COLLECTED IN THE VENEZUELA BASIN

Compressional wave velocity (V_p, m/sec), compressional wave velocity ratio (V_p ratio), attenuation (k), porosity (%), percent calcium carbonate ($CaCO_3$), percent organic carbon (C), percent organic nitrogen (N), shear strength (g/cm^2), percent sand, percent silt, percent clay, mean ϕ (phi), standard deviation, skewness, kurtosis and normalized kurtosis for sediments collected with cylindrical subcores from box cores in the Venezuela Basin are presented. Sample designator consists of station number followed by subcore number (e.g. 3-4 designates the fourth subcore collected at station 3).

Cruise: GYRE 79G-7 Sample: 3-4 Date: 11/15/79
Position: 15-14N;69-14W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0				77.6												
2.0																
3.0				76.1												
4.0																
5.0				75.1												
6.0																
7.0				74.1												
8.0																
9.0				73.1												
10.0																
11.0				71.9												
12.0																
13.0				71.2												
14.0																
15.0				70.9												
16.0																
17.0				70.9												
18.0																
19.0				70.6												
20.0																
21.0																
22.0																
23.0				72.3												
24.0																
25.0																
26.0																
27.0				73.2												
28.0																
29.0																
30.0																
31.0																
32.0																
33.0				73.0												
34.0																
35.0																
36.0																
37.0				71.9												

Cruise: GYRE 79G-7 Sample: 3-5 Date: 11/15/79
Position: 15-14N;69-14W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0				77.1												
2.0																
3.0				76.7												
4.0																
5.0				76.0												
6.0																
7.0				74.8												
8.0																
9.0				74.3												
10.0																
11.0				73.6												
12.0																
13.0				72.3												
14.0																
15.0				72.0												
16.0																
17.0				71.7												
18.0																
19.0				71.5												
20.0																
21.0																
22.0																
23.0				72.0												
24.0																
25.0																
26.0																
27.0				73.4												
28.0																
29.0																
30.0																
31.0																
32.0																
33.0				73.6												
34.0																
35.0																
36.0																
37.0				73.3												

Cruise: GYRE 79G-7 Sample: 3-6 Date: 11/15/79
Position: 15-14N;69-14W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1532.8	1.002														
1.0	1489.5	0.974							52.37	11.00	36.63	5.35	4.37	0.38	0.61	0.38
2.0	1489.5	0.974														
3.0	1489.5	0.974														
4.0	1489.5	0.974														
5.0	1489.5	0.974														
6.0	1489.5	0.974														
7.0	1489.5	0.974														
8.0	1489.5	0.974														
9.0	1489.5	0.974														
10.0	1493.3	0.976														
11.0	1493.3	0.976														
12.0	1493.3	0.976														
13.0	1493.3	0.976														
14.0	1489.5	0.974														
15.0	1493.3	0.976														
16.0	1489.5	0.974														
17.0	1489.5	0.974														
18.0	1489.5	0.974														
19.0	1485.6	0.971														
20.0	1485.6	0.971														
21.0	1481.8	0.969														
22.0	1481.8	0.969														
23.0	1478.1	0.966														
24.0	1478.1	0.966														
25.0	1478.1	0.966														
26.0	1478.1	0.966														
27.0	1478.1	0.966														
28.0	1478.1	0.966														
29.0	1478.1	0.966														
30.0	1478.1	0.966														
31.0	1481.8	0.969														

Cruise: GYRE 79G-7 Sample: 3-7 Date: 11/15/79
Position: 15-14N;69-14W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1543.0	1.009														
1.0	1491.4	0.975														
2.0	1491.4	0.975														
3.0	1495.2	0.978														
4.0	1495.2	0.978														
5.0	1495.2	0.978														
6.0	1495.2	0.978														
7.0	1495.2	0.978														
8.0	1495.2	0.978														
9.0	1495.2	0.978														
10.0	1495.2	0.978														
11.0	1495.2	0.978														
12.0	1495.2	0.978														
13.0	1495.2	0.978														
14.0	1495.2	0.978														
15.0	1495.2	0.978														
16.0	1495.2	0.978														
17.0	1495.2	0.978														
18.0	1491.4	0.975														
19.0	1487.5	0.973														
20.0	1487.5	0.973														
21.0	1483.7	0.970														
22.0	1483.7	0.970														
23.0	1483.7	0.970														
24.0	1479.9	0.968														
25.0	1479.9	0.968														
26.0	1479.9	0.968														
27.0	1479.9	0.968														
28.0	1479.9	0.968														
29.0	1479.9	0.968														
30.0	1479.9	0.968														
31.0	1479.9	0.968														

Cruise: GYRE 79G-7 Sample: 3-8 Date: 11/15/79
Position: 15-14N;69-14W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 g/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1534.8	1.004														
1.0	1495.2	0.978														
2.0	1491.4	0.975														
3.0	1491.4	0.975														
4.0	1495.2	0.978														
5.0	1495.2	0.978														
6.0	1495.2	0.978														
7.0	1495.2	0.978														
8.0	1495.2	0.978														
9.0	1495.2	0.978														
10.0	1495.2	0.978														
11.0	1495.2	0.978														
12.0	1495.2	0.978														
13.0	1495.2	0.978														
14.0	1495.2	0.978														
15.0	1495.2	0.978														
16.0	1491.4	0.975														
17.0	1491.4	0.975														
18.0	1487.5	0.973														
19.0	1487.5	0.973														
20.0	1487.5	0.973														
21.0	1483.7	0.970														
22.0	1483.7	0.970														
23.0	1479.9	0.968														
24.0	1479.9	0.968														
25.0	1479.9	0.968														
26.0	1483.7	0.970														
27.0	1483.7	0.970														
28.0	1479.9	0.968														
29.0	1479.9	0.968														
30.0	1483.7	0.970														

Cruise: GYRE 79G-7 Sample: 3-9 Date: 11/15/79
Position: 15-14N;69-14W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1530.8	1.001														
1.0	1506.9	0.985		77.7												
2.0	1499.1	0.980														
3.0	1491.4	0.975		76.4												
4.0	1483.7	0.970														
5.0	1483.7	0.970		75.1												
6.0	1491.4	0.975														
7.0	1491.4	0.975		74.0												
8.0	1499.1	0.980														
9.0	1499.1	0.980		73.2												
10.0	1499.1	0.980														
11.0	1499.1	0.980		72.1												
12.0	1499.1	0.980														
13.0	1499.1	0.980		70.8												
14.0	1499.1	0.980														
15.0	1499.1	0.980		70.8												
16.0	1499.1	0.980														
17.0	1499.1	0.980		71.3												
18.0	1491.4	0.975														
19.0	1491.4	0.975		71.7												
20.0	1491.4	0.975														
21.0	1483.7	0.970														
22.0	1483.7	0.970														
23.0	1483.7	0.970		72.4												
24.0	1483.7	0.970														
25.0	1483.7	0.970														
26.0	1483.7	0.970														
27.0	1483.7	0.970		74.0												
28.0	1483.7	0.970														
29.0	1483.7	0.970														
30.0	1483.7	0.970														
31.0																
32.0																
33.0				72.8												
34.0																
35.0																
36.0																
37.0				72.1												

Cruise: GYRE 79G-7 Sample: 3-10 Date: 11/15/79
Position: 15-14N;69-14W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1503.2	0.983														
1.0	1495.4	0.978		77.4	67.58				54.68	10.56	34.76	4.99	4.37	0.60	0.59	0.37
2.0	1495.4	0.978														
3.0	1495.4	0.978		76.7	67.98				53.32	10.81	35.87	4.99	4.41	0.54	0.59	0.37
4.0	1495.4	0.978														
5.0	1495.4	0.978		75.6	66.67				49.57	11.60	38.83	5.57	4.43	0.27	0.59	0.37
6.0	1495.4	0.978														
7.0	1495.4	0.978		73.5	68.51				47.15	12.95	39.90	5.89	4.36	0.21	0.59	0.37
8.0	1495.4	0.978														
9.0	1495.4	0.978		72.7	68.55				47.57	12.79	39.64	5.83	4.34	0.21	0.59	0.37
10.0	1495.4	0.978														
11.0	1495.4	0.978		71.9	66.95				46.12	13.96	39.92	5.86	4.34	0.19	0.59	0.37
12.0	1495.4	0.978														
13.0	1495.4	0.978		70.8	66.04				42.71	14.99	42.29	6.20	4.34	0.09	0.59	0.37
14.0	1495.4	0.978														
15.0	1495.4	0.978		70.6	67.56				42.44	15.79	41.77	6.08	4.35	0.11	0.59	0.37
16.0	1495.4	0.978														
17.0	1491.5	0.975		71.1	67.45				34.31	17.50	48.19	6.94	4.34	-0.14	0.61	0.38
18.0	1491.5	0.975														
19.0	1487.7	0.973		71.5	66.86				31.52	19.73	48.75	7.05	4.29	-0.15	0.63	0.39
20.0	1487.7	0.973														
21.0	1487.7	0.973		72.4	70.05				31.34	19.84	48.82	7.06	4.28	-0.15	0.64	0.39
22.0	1483.9	0.970														
23.0	1483.9	0.970		72.6	71.61				32.78	19.39	47.83	6.97	4.20	-0.13	0.65	0.39
24.0	1483.9	0.970														
25.0	1483.9	0.970		73.6	75.76				35.55	19.38	45.08	6.68	4.15	-0.04	0.64	0.39
26.0	1483.9	0.970														
27.0	1483.9	0.970														
28.0	1483.9	0.970														
29.0	1483.9	0.970		72.7	71.55				30.06	21.25	48.63	7.11	4.09	-0.15	0.67	0.40
30.0	1483.9	0.970														
31.0																
32.0																
33.0				71.4	64.09				24.30	20.97	54.66	7.60	3.99	-0.27	0.74	0.43

Cruise: GYRE 79G-7 Sample: 5-1 Date: 11/16/79
Position: 15-14N;69-14W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm.)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1503.0	0.983														
2.0	1495.2	0.978														
3.0	1495.2	0.978														
4.0	1495.2	0.978														
5.0	1495.2	0.978														
6.0	1495.2	0.978														
7.0	1495.2	0.978														
8.0	1495.2	0.978														
9.0	1495.2	0.978														
10.0	1495.2	0.978														
11.0	1495.2	0.978														
12.0	1495.2	0.978														
13.0	1495.2	0.978														
14.0	1495.2	0.978														
15.0	1495.2	0.978														
16.0	1495.2	0.978														
17.0	1495.2	0.978														
18.0	1491.4	0.975														
19.0	1487.5	0.973														
20.0	1487.5	0.973														
21.0	1483.7	0.970														
22.0	1483.7	0.970														
23.0	1479.9	0.968														
24.0	1479.9	0.968														
25.0	1479.9	0.968														
26.0	1479.9	0.968														
27.0	1479.9	0.968														
28.0	1479.9	0.968														
29.0	1479.9	0.968														
30.0	1479.9	0.968														
31.0	1483.7	0.970														

Cruise: GYRE 79G-7 Sample: 5-2 Date: 11/16/79
Position: 15-13N;69-17W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0				78.1					51.33	11.89	36.78	5.66	4.75	0.50	0.59	0.37
2.0																
3.0				77.2					53.41	9.79	35.31	5.67	4.85	0.60	0.58	0.37
4.0																
5.0				76.9					49.06	12.94	38.00	5.78	4.58	0.35	0.60	0.37
6.0																
7.0				74.5					47.42	11.78	40.80	6.11	4.60	0.23	0.59	0.37
8.0																
9.0				73.3					49.90	11.35	38.75	5.63	4.60	0.43	0.59	0.37
10.0																
11.0				72.4					46.58	12.92	40.50	6.19	4.61	0.21	0.60	0.37
12.0																
13.0				71.3					44.31	14.31	41.38	6.23	4.57	0.16	0.59	0.37
14.0																
15.0				70.8					40.36	16.95	42.68	6.59	4.52	0.04	0.59	0.37
16.0																
17.0				71.0					38.39	16.55	45.05	6.71	4.55	0.01	0.59	0.37
18.0																
19.0				72.0					34.35	17.70	47.95	7.07	4.49	-0.10	0.61	0.38
20.0																
21.0																
22.0																
23.0				73.1					31.50	19.16	49.35	7.33	4.47	-0.12	0.64	0.39
24.0																
25.0																
26.0																
27.0				74.7					34.15	17.92	47.92	7.04	4.34	-0.12	0.64	0.39
28.0																
29.0																
30.0																
31.0																
32.0																
33.0				71.7					29.88	18.73	51.39	7.45	4.34	-0.19	0.66	0.40

Cruise: GYRE 79G-7 Sample: 5-4 Date: 11/16/79
Position: 15-13N;69-17W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0	1499.1	0.980		75.3	66.14				50.95	9.35	39.70	5.43	4.52	0.47	0.59	0.37
2.0	1495.2	0.978														
3.0	1495.2	0.978		76.0	65.50				50.50	10.05	39.45	5.32	4.46	0.44	0.58	0.37
4.0	1495.2	0.978														
5.0	1495.2	0.978		74.8	63.39				49.38	10.49	40.14	5.64	4.44	0.33	0.60	0.37
6.0	1495.2	0.978														
7.0	1491.4	0.975		73.7	65.66				46.63	11.90	41.48	6.02	4.43	0.17	0.59	0.37
8.0	1491.4	0.975														
9.0	1491.4	0.975		73.5	65.14				47.16	13.36	39.48	5.81	4.40	0.21	0.59	0.37
10.0	1491.4	0.975														
11.0	1491.4	0.975		73.0	65.79				41.65	16.58	41.77	6.33	4.41	0.04	0.59	0.37
12.0	1491.4	0.975														
13.0	1491.4	0.975		71.7	65.48				37.64	16.40	45.96	6.71	4.42	-0.05	0.60	0.37
14.0	1491.4	0.975														
15.0	1491.4	0.975		70.9	63.69				38.62	16.31	45.02	6.54	4.44	-0.02	0.60	0.37
16.0	1487.5	0.973														
17.0	1487.5	0.973		71.2	64.86				37.88	15.61	46.51	6.69	4.43	-0.07	0.59	0.37
18.0	1487.5	0.973														
19.0	1487.5	0.973		71.5	66.53				33.76	17.72	48.52	7.00	4.39	-0.15	0.62	0.38
20.0	1487.5	0.973														
21.0	1483.7	0.970		72.3	69.89				29.19	20.05	50.70	7.28	4.33	-0.21	0.67	0.40
22.0	1479.9	0.968														
23.0	1479.9	0.968		72.7	69.90				27.55	20.64	51.82	7.41	4.19	-0.24	0.69	0.41
24.0	1479.9	0.968														
25.0	1479.9	0.968		73.1	73.52				31.90	20.87	47.23	7.04	4.24	-0.09	0.66	0.40
26.0	1479.9	0.968														
27.0	1479.9	0.968														
28.0	1479.9	0.968		73.6	70.77				31.11	20.59	48.25	7.07	4.13	-0.14	0.67	0.40
29.0	1479.9	0.968														
30.0	1479.9	0.968														
31.0	1479.9	0.968														
32.0	1479.9	0.968		73.6	62.92				28.39	20.05	51.56	7.35	4.11	-0.23	0.69	0.41

Cruise: GYRE 79G-7 Sample: 5-5 Date: 11/16/79
Position: 15-13N;69-17W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm.)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1465.0	0.958														
1.0	1499.1	0.980														
2.0	1491.4	0.975														
3.0	1491.4	0.975														
4.0	1491.4	0.975														
5.0	1491.4	0.975														
6.0	1491.4	0.975														
7.0	1495.2	0.978														
8.0	1491.4	0.975														
9.0	1491.4	0.975														
10.0	1491.4	0.975														
11.0	1491.4	0.975														
12.0	1495.2	0.978														
13.0	1495.2	0.978														
14.0	1495.2	0.978														
15.0	1495.2	0.978														
16.0	1491.4	0.975														
17.0	1491.4	0.975														
18.0	1491.4	0.975														
19.0	1487.5	0.973														
20.0	1487.5	0.973														
21.0	1487.5	0.973														
22.0	1483.7	0.970														
23.0	1483.7	0.970														
24.0	1483.7	0.970														
25.0	1483.7	0.970														
26.0	1483.7	0.970														
27.0	1479.9	0.968														
28.0	1479.9	0.968														
29.0	1479.9	0.968														
30.0	1479.9	0.968														
31.0	1479.9	0.968														
32.0	1483.7	0.970														

Cruise: GYRE 79G-7 Sample: 5-6 Date: 11/16/79
Position: 15-13N;69-17W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0				78.0												
2.0																
3.0				77.4												
4.0																
5.0				76.5												
6.0																
7.0				74.5												
8.0																
9.0				74.0												
10.0																
11.0				73.0												
12.0																
13.0				71.9												
14.0																
15.0				71.1												
16.0																
17.0				71.0												
18.0																
19.0				71.0												
20.0																
21.0																
22.0																
23.0				71.7												
24.0																
25.0																
26.0																
27.0				72.6												
28.0																
29.0																
30.0																
31.0																
32.0																
33.0				73.7												
34.0																
35.0																
36.0																
37.0				71.7												

Cruise: GYRE 79G-7 Sample: 5-7 Date: 11/16/79
Position: 15-13N;69-17W Depth: 3956m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm.)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0				77.7												
2.0																
3.0				77.5												
4.0																
5.0				76.3												
6.0																
7.0				74.4												
8.0																
9.0				73.9												
10.0																
11.0				73.3												
12.0																
13.0				72.4												
14.0																
15.0				70.9												
16.0																
17.0				71.1												
18.0																
19.0				71.0												
20.0																
21.0																
22.0																
23.0				72.2												
24.0																
25.0																
26.0																
27.0				73.0												
28.0																
29.0																
30.0																
31.0																
32.0																
33.0				73.8												
34.0																
35.0																
36.0																
37.0				71.7												
38.0																
39.0																
40.0																
41.0				72.8												

Cruise: CYRE 79G-7 Sample: 5-14 Date: 11/16/79
Position: 15-13N;69-17W Depth: 3958m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1526.7	0.998														
1.0	1495.2	0.978														
2.0	1491.4	0.975														
3.0	1491.4	0.975														
4.0	1491.4	0.975														
5.0	1491.4	0.975														
6.0	1491.4	0.975														
7.0	1491.4	0.975														
8.0	1491.4	0.975														
9.0	1491.4	0.975														
10.0	1491.4	0.975														
11.0	1491.4	0.975														
12.0	1495.2	0.978														
13.0	1495.2	0.978														
14.0	1495.2	0.978														
15.0	1495.2	0.978														
16.0	1487.5	0.973														
17.0	1487.5	0.973														
18.0	1487.5	0.973														
19.0	1483.7	0.970														
20.0	1483.7	0.970														
21.0	1479.9	0.968														
22.0	1479.9	0.968														
23.0	1479.9	0.968														
24.0	1479.9	0.968														
25.0	1479.9	0.968														
26.0	1479.9	0.968														
27.0	1479.9	0.968														
28.0	1479.9	0.968														
29.0	1479.9	0.968														
30.0	1479.9	0.968														
31.0	1479.9	0.968														

Cruise: LYNCH 708-80 Sample: 9-1 Date: 7/8/80
Position: 13-46N;67-45W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 c/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0									1.31	16.09	82.59	9.97	2.04	-0.18	1.27	0.56
2.0	1491.4	0.975														
3.0	1483.7	0.970														
4.0	1483.7	0.970														
5.0	1479.9	0.968														
6.0	1479.9	0.968														
7.0	1479.9	0.968														
8.0	1479.9	0.968														
9.0	1479.9	0.968														
10.0	1479.9	0.968														
11.0	1479.9	0.968														
12.0	1479.9	0.968														
13.0	1487.5	0.973														
14.0	1491.4	0.975														
15.0	1499.1	0.980														
16.0	1499.1	0.980														
17.0	1487.5	0.973														
18.0	1491.4	0.975														
19.0	1510.8	0.988														
20.0	1510.8	0.988														
21.0	1530.8	1.001														
22.0	1551.3	1.014														
23.0	1506.9	0.985														
24.0	1483.7	0.970														
25.0	1479.9	0.968														

Cruise: LYNCH 708-80 Sample: 9-2 Date: 7/8/80
Position: 13-46N;67-45W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0	1499.1	0.980		81.0					0.52	17.37	82.11	9.92	2.04	-0.18	1.18	0.54
2.0	1487.5	0.973														
3.0	1487.5	0.973		80.0					1.87	16.21	81.92	9.83	1.98	-0.24	1.24	0.55
4.0	1483.7	0.970														
5.0	1483.7	0.970		79.1					0.33	19.50	80.17	9.86	2.10	-0.14	1.11	0.52
6.0	1483.7	0.970														
7.0	1483.7	0.970		76.9					0.16	18.30	81.54	9.89	2.00	-0.17	1.13	0.53
8.0	1479.9	0.968														
9.0	1479.9	0.968		75.0					0.00	20.42	79.58	9.85	2.10	-0.14	1.05	0.51
10.0	1483.7	0.970														
11.0	1483.7	0.970		70.7					0.14	28.29	71.57	9.38	2.15	-0.12	0.94	0.48
12.0	1491.4	0.975														
13.0				69.5					0.52	28.49	70.99	9.33	2.17	-0.18	0.96	0.49
14.0																
15.0				71.0												
16.0																
17.0				68.4												
18.0																
19.0				60.6												
20.0																
21.0				72.3												
22.0																
23.0				76.5												
24.0																
25.0				75.1												

Cruise: LYNCH 708-80 Sample: 14-6 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oc 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1495.5	0.978														
1.0	1484.0	0.970		84.9					0.25	15.03	84.72	10.47	2.19	-0.09	0.89	0.47
2.0	1484.0	0.970														
3.0	1484.0	0.970		80.3					0.23	15.61	84.17	10.23	2.07	-0.12	0.99	0.50
4.0	1480.2	0.968														
5.0	1480.2	0.968		78.1					0.54	15.97	83.49	10.31	2.21	-0.08	0.91	0.48
6.0	1480.2	0.968														
7.0	1480.2	0.968		76.6					0.08	16.14	83.78	10.36	2.20	-0.04	0.84	0.46
8.0	1480.2	0.968														
9.0	1484.0	0.970		75.2					0.08	17.05	82.87	10.31	2.22	-0.04	0.84	0.46
10.0	1491.6	0.975														
11.0	1495.5	0.978		71.1					0.23	25.80	73.97	9.71	2.33	-0.03	0.86	0.46
12.0	1487.8	0.973														
13.0	1484.0	0.970		72.8					0.14	26.86	72.99	9.73	2.38	-0.03	0.84	0.46
14.0	1484.0	0.970														
15.0	1484.0	0.970		73.1												
16.0	1484.0	0.970														
17.0	1484.0	0.970		74.9												
18.0	1487.8	0.973														
19.0	1487.8	0.973		72.9												
20.0	1487.8	0.973														
21.0	1495.5	0.978														
22.0	1495.5	0.978														
23.0	1507.2	0.985		68.5												
24.0	1511.1	0.988														
25.0	1499.3	0.980														
26.0	1484.0	0.970														
27.0	1480.2	0.968		74.4												
28.0	1480.2	0.968														

Cruise: LYNCH 708-80 Sample: 14-7 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1491.6	0.975														
1.0	1484.0	0.970							1.08	14.37	84.56	10.21	2.08	-0.09	1.12	0.53
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1480.2	0.968														
5.0	1480.2	0.968														
6.0	1480.2	0.968														
7.0	1480.2	0.968														
8.0	1480.2	0.968														
9.0	1480.2	0.968														
10.0	1480.2	0.968														

Cruise: LYNCH 708-80 Sample: 14-8 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1495.5	0.978														
1.0	1487.8	0.973														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1480.2	0.968														
7.0	1480.2	0.968														
8.0	1480.2	0.968														
9.0	1480.2	0.968														
10.0	1480.2	0.968														
11.0	1487.8	0.973														
12.0	1487.8	0.973														
13.0	1495.5	0.978														
14.0	1487.8	0.973														
15.0	1484.0	0.970														
16.0	1484.0	0.970														
17.0	1484.0	0.970														
18.0	1495.5	0.978														
19.0	1503.2	0.983														
20.0	1491.6	0.975														
21.0	1484.0	0.970														
22.0	1476.4	0.965														
23.0	1480.2	0.968														

Cruise: LYNCH 708-80 Sample: 14-9 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1511.1	0.988														
1.0	1495.5	0.978		85.0					0.82	26.57	72.62	9.41	2.62	-0.26	1.01	0.50
2.0	1484.0	0.970														
3.0	1484.0	0.970		82.7					0.46	16.08	83.47	10.10	2.07	-0.12	1.06	0.52
4.0	1484.0	0.970														
5.0	1484.0	0.970		77.3					0.10	17.91	82.00	9.97	2.06	-0.12	1.04	0.51
6.0	1484.0	0.970														
7.0	1484.0	0.970		80.8					0.15	16.67	83.18	10.02	2.01	-0.12	1.10	0.52
8.0	1484.0	0.970														
9.0	1484.0	0.970		74.0					0.00	20.84	79.16	9.81	2.06	-0.11	1.01	0.50
10.0	1487.8	0.973														
11.0	1491.7	0.975		72.1					0.12	25.05	74.83	9.50	2.07	-0.12	0.99	0.50
12.0	1495.5	0.978														
13.0	1495.5	0.978		73.5					0.23	28.21	71.56	9.41	2.16	-0.10	0.93	0.48
14.0	1484.0	0.970														
15.0	1484.0	0.970		73.6												
16.0	1484.0	0.970														
17.0	1480.2	0.968		75.7												
18.0	1480.2	0.968														
19.0	1480.2	0.968		73.4												
20.0	1487.8	0.973														
21.0	1487.8	0.973		72.4												
22.0	1491.7	0.975														
23.0	1495.5	0.978		72.2												
24.0	1499.4	0.980														
25.0	1507.2	0.985		69.0												
26.0	1515.1	0.991														
27.0	1507.2	0.985		66.5												
28.0	1487.8	0.973														
29.0	1480.2	0.968		73.8												
30.0	1476.4	0.965														
31.0				79.3												
32.0																
33.0				75.9												

Cruise: LYNCH 708-80 Sample: 14-10 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1499.4	0.980														
1.0	1487.8	0.973														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1480.2	0.968														
6.0	1480.2	0.968														
7.0	1480.2	0.968														
8.0	1480.2	0.968														
9.0	1480.2	0.968														
10.0	1487.8	0.973														
11.0	1487.8	0.973														
12.0	1487.8	0.973														
13.0	1491.7	0.975														
14.0	1487.8	0.973														
15.0	1484.0	0.970														
16.0	1480.2	0.968														
17.0	1480.2	0.968														
18.0	1480.2	0.968														
19.0	1484.0	0.970														
20.0	1487.8	0.973														
21.0	1487.8	0.973														
22.0	1491.7	0.975														
23.0	1495.5	0.978														
24.0	1507.2	0.985														
25.0	1515.1	0.991														
26.0	1491.7	0.975														
27.0	1484.0	0.970														

Cruise: LYNCH 708-80 Sample: 14-11 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1499.4	0.980														
1.0	1484.0	0.970														
2.0	1484.0	0.970														
3.0	1487.8	0.973														
4.0	1487.8	0.973														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1487.8	0.973														
12.0	1487.8	0.973														
13.0	1491.7	0.975														
14.0	1487.8	0.973														
15.0	1480.2	0.968														
16.0	1480.2	0.968														
17.0	1480.2	0.968														
18.0	1480.2	0.968														
19.0	1484.0	0.970														
20.0	1487.8	0.973														
21.0	1487.8	0.973														
22.0	1487.8	0.973														
23.0	1491.7	0.975														
24.0	1495.5	0.978														
25.0	1507.2	0.985														
26.0	1503.3	0.983														
27.0	1484.0	0.970														
28.0	1476.4	0.965														
29.0	1476.4	0.965														
30.0	1476.4	0.965														

Cruise: LYNCH 708-80 Sample: 14-12 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1507.2	0.985														
1.0	1487.8	0.973														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1480.2	0.968														
5.0	1480.2	0.968														
6.0	1480.2	0.968														
7.0	1480.2	0.968														
8.0	1480.2	0.968														
9.0	1480.2	0.968														

Cruise: LYNCH 708-80 Sample: 14-13 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1507.2	0.985														
1.0	1495.5	0.978														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1480.2	0.968														
6.0	1480.2	0.968														
7.0	1480.2	0.968														
8.0	1480.2	0.968														
9.0	1480.2	0.968														
10.0	1480.2	0.968														
11.0	1484.0	0.970														
12.0	1487.8	0.973														
13.0	1487.8	0.973														
14.0	1491.7	0.975														
15.0	1484.0	0.970														
16.0	1480.2	0.968														
17.0	1480.2	0.968														
18.0	1480.2	0.968														
19.0	1480.2	0.968														
20.0	1480.2	0.968														
21.0	1484.0	0.970														
22.0	1487.8	0.973														
23.0	1495.5	0.978														
24.0	1495.5	0.978														
25.0	1487.8	0.973														

Cruise: LYNCH 708-80 Sample: 14-14 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1507.2	0.985														
1.0	1491.6	0.975														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1487.8	0.973														
5.0	1487.8	0.973														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1491.6	0.975														
13.0	1491.6	0.975														
14.0	1491.6	0.975														
15.0	1487.8	0.973														
16.0	1484.0	0.970														
17.0	1484.0	0.970														
18.0	1484.0	0.970														
19.0	1484.0	0.970														
20.0	1487.8	0.973														
21.0	1495.5	0.978														
22.0	1503.2	0.983														
23.0	1503.2	0.983														
24.0	1487.8	0.973														
25.0	1484.0	0.970														

Cruise: LYNCH 708-80 Sample: 14-15 Date: 7/23/80
Position: 13-5N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1499.3	0.980														
1.0	1487.8	0.973														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1487.8	0.973														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1487.8	0.973														
13.0	1491.6	0.975														
14.0	1487.8	0.973														
15.0	1484.0	0.970														
16.0	1484.0	0.970														
17.0	1484.0	0.970														
18.0	1484.0	0.970														
19.0	1484.0	0.970														
20.0	1484.0	0.970														
21.0	1484.0	0.970														
22.0	1491.6	0.975														
23.0	1495.5	0.978														
24.0	1507.2	0.985														
25.0	1491.6	0.975														
26.0	1484.0	0.970														
27.0	1484.0	0.970														

Cruise: LYNCH 708-80 Sample: 14-16 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1495.5	0.978														
1.0	1491.6	0.975														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1491.6	0.975														
13.0	1491.6	0.975														
14.0	1487.8	0.973														
15.0	1484.0	0.970														
16.0	1484.0	0.970														
17.0	1484.0	0.970														
18.0	1484.0	0.970														
19.0	1484.0	0.970														
20.0	1484.0	0.970														
21.0	1484.0	0.970														
22.0	1487.8	0.973														
23.0	1495.5	0.978														
24.0	1487.8	0.973														
25.0	1480.2	0.968														
26.0	1480.2	0.968														

Cruise: LYNCH 708-80 Sample: 14-17 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1511.1	0.988														
1.0	1499.3	0.980														
2.0	1491.6	0.975														
3.0	1487.8	0.973														
4.0	1487.8	0.973														
5.0	1487.8	0.973														
6.0	1487.8	0.973														
7.0	1487.8	0.973														
8.0	1487.8	0.973														
9.0	1487.8	0.973														
10.0	1484.0	0.970														
11.0	1487.8	0.973														
12.0	1491.6	0.975														
13.0	1491.6	0.975														
14.0	1487.8	0.973														
15.0	1487.8	0.973														
16.0	1487.8	0.973														
17.0	1487.8	0.973														
18.0	1487.8	0.973														
19.0	1487.8	0.973														
20.0	1487.8	0.973														
21.0	1491.6	0.975														
22.0	1491.6	0.975														
23.0	1495.5	0.978														
24.0	1499.3	0.980														
25.0	1507.2	0.985														
26.0	1511.1	0.988														
27.0	1491.6	0.975														
28.0	1484.0	0.970														
29.0	1480.2	0.968														
30.0	1480.2	0.968														
31.0	1480.2	0.968														

Cruise: LYNCH 708-80 Sample: 14-18 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1503.2	0.983														
1.0	1487.8	0.973														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1487.8	0.973														
10.0	1487.8	0.973														
11.0	1487.8	0.973														
12.0	1484.0	0.970														
13.0	1484.0	0.970														
14.0	1484.0	0.970														
15.0	1484.0	0.970														
16.0	1484.0	0.970														
17.0	1491.6	0.975														
18.0	1495.5	0.978														
19.0	1495.5	0.978														
20.0	1499.3	0.980														
21.0	1495.5	0.978														
22.0	1480.2	0.968														
23.0	1480.2	0.968														
24.0	1480.2	0.968														

Cruise: LYNCH 708-80 Sample: 14-19 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1484.0	0.970														
1.0	1487.8	0.973														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1487.8	0.973														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1487.8	0.973														
13.0	1487.8	0.973														
14.0	1487.8	0.973														
15.0	1487.8	0.973														
16.0	1484.0	0.970														
17.0	1484.0	0.970														
18.0	1484.0	0.970														
19.0	1484.0	0.970														
20.0	1491.6	0.975														
21.0	1499.3	0.980														
22.0	1511.1	0.988														
23.0	1499.3	0.980														
24.0	1484.0	0.970														
25.0	1484.0	0.970														

Cruise: LYNCH 708-80 Sample: 14-20 Date: 7/23/80
Position: 13-50N;67-39W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1507.2	0.985														
1.0	1487.8	0.973														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1487.8	0.973														
5.0	1487.8	0.973														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1484.0	0.970														
13.0	1484.0	0.970														
14.0	1484.0	0.970														
15.0	1487.8	0.973														
16.0	1487.8	0.973														
17.0	1484.0	0.970														
18.0	1484.0	0.970														
19.0	1484.0	0.970														
20.0	1484.0	0.970														
21.0	1484.0	0.970														
22.0	1484.0	0.970														
23.0	1487.8	0.973														
24.0	1491.6	0.975														
25.0	1495.5	0.978														
26.0	1499.3	0.980														
27.0	1511.1	0.988														
28.0	1511.1	0.988														
29.0	1495.5	0.978														
30.0	1484.0	0.970														
31.0	1484.0	0.970														
32.0	1484.0	0.970														
33.0	1484.0	0.970														

Cruise: LYNCH 708-80 Sample: 16-1 Date: 7/24/80
Position: 13-45N;67-40W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1491.6	0.975														
1.0	1491.6	0.975														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1484.0	0.970														
13.0	1484.0	0.970														
14.0	1484.0	0.970														
15.0	1487.8	0.973														
16.0	1491.6	0.975														
17.0	1499.3	0.980														

Cruise: LYNCH 708-80 Sample: 16-2 Date: 7/24/80
Position: 13-45;N67-40W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1503.2	0.983														
1.0	1491.6	0.975														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1487.8	0.973														

Cruise: LYNCH 708-80 Sample: 16-3 Date: 7/24/80
Position: 13-45N;67-40W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1506.9	0.985														
2.0	1495.2	0.978														
3.0	1491.4	0.975														
4.0	1487.5	0.973														
5.0	1487.5	0.973														
6.0	1487.5	0.973														
7.0	1487.5	0.973														
8.0	1487.5	0.973														
9.0	1487.5	0.973														
10.0	1487.5	0.973														
11.0	1487.5	0.973														
12.0	1487.5	0.973														
13.0	1491.4	0.975														
14.0	1499.1	0.980														

Cruise: LYNCH 708-80 Sample: 16-4 Date: 7/24/80
Position: 13-45N;67-40W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1495.5	0.978														
1.0	1491.6	0.975														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1484.0	0.970														
12.0	1484.0	0.970														
13.0	1484.0	0.970														
14.0	1484.0	0.970														
15.0	1484.0	0.970														
16.0	1491.6	0.975														
17.0	1499.3	0.980														

Cruise: LYNCH 708-80 Sample: 16-5 Date: 7/24/80
Position: 13-45N;67-40W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1507.2	0.985														
1.0	1495.5	0.978														
2.0	1487.8	0.973														
3.0	1487.8	0.973														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1484.0	0.970														
10.0	1484.0	0.970														
11.0	1487.8	0.973														
12.0	1491.6	0.975														
13.0	1507.2	0.985														
14.0	1507.2	0.985														
15.0	1499.3	0.980														
16.0	1511.1	0.988														
17.0	1487.8	0.973														

Cruise: LYNCH 708-80 Sample: 16-6 Date: 7/24/80
Position: 13-45N;67-40W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1491.6	0.975														
1.0	1487.8	0.973														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1487.8	0.973														
9.0	1495.5	0.978														
10.0	1495.5	0.978														
11.0	1499.3	0.980														
12.0	1499.3	0.980														
13.0	1503.2	0.983														
14.0	1503.2	0.983														
15.0	1495.5	0.978														

Cruise: LYNCH 708-80 Sample: 16-7 Date: 7/24/80
Position: 13-45N;67-40W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1491.6	0.975														
1.0	1487.8	0.973														
2.0	1484.0	0.970														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1484.0	0.970														
9.0	1491.6	0.975														
10.0	1495.5	0.978														
11.0	1503.2	0.983														
12.0	1499.3	0.980														
13.0	1484.0	0.970														

Cruise: LYNCH 708-80 Sample: 16-8 Date: 7/24/80
Position: 13-45N;67-40W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1503.2	0.983														
2.0	1491.6	0.975														
3.0	1484.0	0.970														
4.0	1484.0	0.970														
5.0	1484.0	0.970														
6.0	1484.0	0.970														
7.0	1484.0	0.970														
8.0	1487.8	0.973														
9.0	1495.5	0.978														
10.0	1503.2	0.983														
11.0	1511.1	0.988														

Cruise: LYNCH 708-80 Sample: 16-9 Date: 7/24/80
Position: 13-45N;67-40W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm.)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1499.2	0.980														
1.0	1491.4	0.975														
2.0	1487.6	0.973														
3.0	1487.6	0.973														
4.0	1487.6	0.973														
5.0	1487.6	0.973														
6.0	1487.6	0.973														
7.0	1487.6	0.973														
8.0	1487.6	0.973														
9.0	1487.6	0.973														
10.0	1487.6	0.973														
11.0	1491.4	0.975														
12.0	1499.2	0.980														
13.0	1507.0	0.985														
14.0	1507.0	0.985														
15.0	1507.0	0.985														
16.0	1510.9	0.988														
17.0	1510.9	0.988														
18.0	1487.6	0.973														
19.0	1480.0	0.968														
20.0	1483.8	0.970														

Cruise: LYNCH 708-80 Sample: 16-10 Date: 7/24/80
Position: 13-45N;67-40W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
2.0	1507.0	0.985														
3.0	1507.0	0.985														
4.0	1499.2	0.980														
5.0	1503.1	0.983														
6.0	1510.9	0.988														
7.0	1514.8	0.990														
8.0	1514.8	0.990														
9.0	1510.9	0.988														
10.0	1503.1	0.983														
11.0	1483.8	0.970														
12.0	1483.8	0.970														

Cruise: LYNCH 708-80 Sample: 16-11 Date: 7/24/80
Position: 13-45N;67-40W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1495.3	0.978														
1.0	1491.4	0.975														
2.0	1487.6	0.973														
3.0	1487.6	0.973														
4.0	1487.6	0.973														
5.0	1483.8	0.970														
6.0	1483.8	0.970														
7.0	1483.8	0.970														
8.0	1483.8	0.970														
9.0	1483.8	0.970														
10.0	1483.8	0.970														
11.0	1487.6	0.973														
12.0	1499.2	0.980														
13.0	1510.9	0.988														

Cruise: LYNCH 708-80 Sample: 16-12 Date: 7/24/80
Position: 13-45N;67-40W Depth: 5054m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm.)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1503.1	0.983														
2.0	1503.1	0.983														
3.0	1518.8	0.993														
4.0	1522.8	0.996														
5.0	1510.9	0.988														
6.0	1495.3	0.978														
7.0	1495.3	0.978														
8.0	1499.2	0.980														
9.0	1499.2	0.980														
10.0	1503.1	0.983														
11.0	1507.0	0.985														
12.0	1510.9	0.988														
13.0	1581.0	1.034														
14.0	1547.2	1.012														
15.0	1495.3	0.978														
16.0	1480.0	0.968														
17.0	1480.0	0.968														
18.0	1480.0	0.968														
19.0	1480.0	0.968														
20.0	1480.0	0.968														

Cruise: LYNCH 706-80 Sample: 17-1 Date: 7/25/80
Position: 13-32N;64-45w Depth: 3517m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1495.2	0.976		80.3					14.04	12.02	73.94	9.47	3.72	-0.41	1.17	0.54
2.0	1487.5	0.973														
3.0	1487.5	0.973		79.8					12.80	12.12	75.09	9.60	3.60	-0.40	1.23	0.55
4.0	1487.5	0.973														
5.0	1487.5	0.973		79.3					10.41	12.80	76.79	9.97	3.36	-0.37	1.24	0.55
6.0	1487.5	0.973														
7.0	1487.5	0.973		79.2					8.80	12.83	78.37	10.14	3.21	-0.33	1.28	0.56
8.0	1487.5	0.973														
9.0	1487.5	0.973		78.3					6.46	15.86	77.68	10.14	3.03	-0.31	1.14	0.53
10.0	1487.5	0.973														
11.0	1487.5	0.973		78.4					5.95	15.46	78.59	10.21	2.93	-0.30	1.21	0.55
12.0	1487.5	0.973														
13.0	1487.5	0.973		77.4					5.10	14.92	79.98	10.24	2.83	-0.28	1.13	0.53
14.0	1487.5	0.973														
15.0	1487.5	0.973		76.1					5.97	13.50	80.53	10.26	2.91	-0.34	1.29	0.56
16.0	1491.4	0.975														
17.0	1491.4	0.975		76.1					4.24	11.66	84.09	10.38	2.49	-0.24	1.36	0.58
18.0	1491.4	0.975														
19.0	1491.4	0.975		75.3					5.71	13.90	80.39	10.14	2.82	-0.29	1.29	0.56
20.0	1491.4	0.975														
21.0	1491.4	0.975														
22.0	1491.4	0.975														
23.0	1491.4	0.975		75.6					6.43	14.94	78.63	10.06	3.00	-0.30	1.24	0.55
24.0																
25.0																
26.0																
27.0				75.4					11.29	15.07	73.64	9.56	3.46	-0.37	1.21	0.55

Cruise: LYNCH 708-80 Sample: 17-2 Date: 7/25/80
Position: 13-32N;64-45W Depth: 3517m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1510.8	0.988														
1.0	1499.1	0.980							11.07	12.26	76.67	9.63	3.26	-0.42	1.56	0.61
2.0	1491.4	0.975														
3.0	1491.4	0.975														
4.0	1495.2	0.978														
5.0	1491.4	0.975														
6.0	1491.4	0.975														
7.0	1491.4	0.975														
8.0	1491.4	0.975														
9.0	1491.4	0.975														
10.0	1491.4	0.975														
11.0	1491.4	0.975														
12.0	1491.4	0.975														
13.0	1491.4	0.975														
14.0	1487.5	0.973														
15.0	1487.5	0.973														
16.0	1487.5	0.973														
17.0	1487.5	0.973														
18.0	1491.4	0.975														
19.0	1495.2	0.978														
20.0	1495.2	0.978														
21.0	1491.4	0.975														
22.0	1491.4	0.975														
23.0	1491.4	0.975														
24.0	1499.1	0.980														

Cruise: LYNCH 708-80 Sample: 17-3 Date: 7/25/80
Position: 13-32N;64-45W Depth: 3517m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1503.0	0.983														
1.0	1495.2	0.978		81.6	28.74				18.34	11.25	70.42	8.31	4.11	-0.56	1.22	0.55
2.0	1491.4	0.975														
3.0	1491.4	0.975		80.4	26.65				12.64	11.98	75.38	9.41	3.32	-0.46	1.56	0.61
4.0	1491.4	0.975														
5.0	1491.4	0.975		79.5	27.74				12.31	12.10	75.59	9.46	3.27	-0.44	1.56	0.61
6.0	1491.4	0.975														
7.0	1491.4	0.975		79.1	25.50				13.53	15.79	70.68	9.32	3.37	-0.47	1.36	0.58
8.0	1495.2	0.978														
9.0	1491.4	0.975		78.9	24.52				12.49	11.60	75.91	9.41	3.36	-0.46	1.64	0.62
10.0	1491.4	0.975														
11.0	1491.4	0.975		77.8	22.32				7.40	13.23	79.38	9.88	2.89	-0.38	1.67	0.63
12.0	1491.4	0.975														
13.0	1491.4	0.975		76.3	23.08				5.20	16.28	78.51	9.79	2.69	-0.36	1.39	0.58
14.0	1491.4	0.975														
15.0	1491.4	0.975		75.9	22.32				5.07	12.20	82.73	10.05	2.49	-0.32	1.69	0.63
16.0	1491.4	0.975														
17.0	1495.2	0.978		74.7	22.53				5.92	12.06	82.02	9.79	2.43	-0.43	2.01	0.67
18.0	1495.2	0.978														
19.0	1491.4	0.975		74.7	23.92				4.86	12.41	82.73	10.01	2.43	-0.31	1.76	0.64
20.0	1491.4	0.975														
21.0	1491.4	0.975		74.1	24.21				6.18	13.70	80.12	9.78	2.66	-0.35	1.73	0.63
22.0	1491.4	0.975														
23.0				74.2	24.78				6.16	15.27	78.57	9.74	2.70	-0.37	1.60	0.62
24.0																
25.0				75.2	24.88				5.74	16.24	78.03	9.72	2.70	-0.37	1.54	0.61
26.0																
27.0				75.9	25.36				6.64	18.28	75.08	9.61	2.94	-0.39	1.34	0.57

Cruise: LYNCH 708-80 Sample: 18-1 Date: 7/26/80
Position: 13-25N;64-47W Depth: 3517m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0	1503.1	0.983														
1.0	1495.3	0.978		83.1	24.24				13.80	11.30	74.90	9.17	3.44	-0.50	1.65	0.62
2.0	1491.4	0.975														
3.0	1491.4	0.975		81.7	22.38				9.66	11.38	78.95	9.57	2.85	-0.49	1.93	0.66
4.0	1487.6	0.973														
5.0	1491.4	0.975		80.3	21.38				9.29	11.58	79.13	9.75	2.93	-0.43	1.82	0.65
6.0	1491.4	0.975														
7.0	1487.6	0.973		80.9	20.46				7.61	11.83	80.55	9.81	2.74	-0.41	1.94	0.66
8.0	1487.6	0.973														
9.0	1491.4	0.975		78.8	20.38				6.66	14.99	78.35	9.54	2.63	-0.47	1.73	0.63
10.0	1491.4	0.975														
11.0	1491.4	0.975		77.8	21.99				9.22	12.73	78.05	9.36	2.75	-0.56	1.87	0.65
12.0	1491.4	0.975														
13.0	1491.4	0.975		77.6	20.54				5.10	14.56	80.33	9.72	2.43	-0.41	1.67	0.63
14.0	1491.4	0.975														
15.0	1491.4	0.975		77.5	20.63				4.82	11.79	83.38	9.72	2.08	-0.47	1.90	0.65
16.0	1495.3	0.978														
17.0	1495.3	0.978		76.2	20.91				5.92	12.65	81.43	9.59	2.31	-0.51	1.89	0.65
18.0	1495.3	0.978														
19.0				75.4	20.74				3.88	12.62	83.50	9.89	2.10	-0.34	1.69	0.63
20.0																
21.0				76.0	24.44				6.04	13.38	80.58	9.63	2.45	-0.46	1.80	0.64
22.0																
23.0				76.2	24.65				7.50	12.95	79.55	9.78	2.77	-0.39	1.74	0.63

Cruise: BARTLT 1301-82 Sample: 21-2 Date: 10/18/81
Position: 15-07N;69-24W Depth: 3937m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.1	1.000														
0.0	1512.7	0.989														
1.0	1499.3	0.980														
2.0	1492.3	0.976														
3.0	1489.0	0.974														
4.0	1490.1	0.974														
5.0	1488.3	0.973														
6.0	1488.6	0.973														
7.0	1488.3	0.973														
8.0	1488.3	0.973														
9.0	1487.5	0.973														
10.0	1486.8	0.972														
11.0	1486.4	0.972														
12.0	1484.6	0.971														
13.0	1482.8	0.970														
14.0	1482.8	0.970														
15.0	1482.1	0.969														
16.0	1482.1	0.969														
17.0	1482.1	0.969														
18.0	1482.1	0.969														
19.0	1482.1	0.969														
20.0	1480.7	0.968														
21.0	1480.3	0.968														
22.0	1480.7	0.968														
23.0	1480.7	0.968														
24.0	1479.9	0.968														
25.0	1479.9	0.968														

Cruise: BARTLT 1301-82 Sample: 21-3 Date: 10/18/81
Position: 15-07N;69-24W Depth: 3937m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.2	1.001														
0.0	1521.8	0.995														
1.0	1510.1	0.987				0.397	0.071									
2.0	1510.1	0.982														
3.0	1498.2	0.980														
4.0	1497.4	0.979														
5.0	1494.8	0.977														
6.0	1493.4	0.976														
7.0	1492.3	0.976														
8.0	1492.3	0.976														
9.0	1491.9	0.976														
10.0	1491.9	0.976														
11.0	1490.1	0.974														
12.0	1490.1	0.974														
13.0	1490.1	0.974														
14.0	1490.1	0.974														
15.0	1489.0	0.974														
16.0	1489.0	0.974														
17.0	1487.9	0.973														
18.0	1486.1	0.972														
19.0	1485.7	0.971														
20.0	1484.6	0.971														
21.0	1482.5	0.969														
22.0	1481.7	0.969														
23.0	1481.7	0.969														
24.0	1481.7	0.969														
25.0	1482.1	0.969														
26.0	1489.0	0.974														
27.0	1488.6	0.973														

Cruise: BARTLT 1301-82 Sample: 21-4 Date: 10/18/81
Position: 15-07N;69-24w Depth: 3937m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.1	1.000														
0.0	1518.4	0.993														
1.0	1501.1	0.982														
2.0	1491.5	0.975														
3.0	1489.7	0.974														
4.0	1489.7	0.974														
5.0	1489.0	0.974														
6.0	1488.6	0.973														
7.0	1488.6	0.973														
8.0	1489.4	0.974														
9.0	1488.6	0.973														
10.0	1487.9	0.973														
11.0	1488.3	0.973														
12.0	1486.8	0.972														
13.0	1486.1	0.972														
14.0	1484.3	0.970														
15.0	1482.1	0.969														
16.0	1481.0	0.968														
17.0	1480.7	0.968														
18.0	1480.3	0.968														
19.0	1479.9	0.968														
20.0	1479.2	0.967														
21.0	1479.2	0.967														
22.0	1479.2	0.967														
23.0	1481.4	0.969														
24.0	1483.2	0.970														
25.0	1481.7	0.969														
26.0	1481.4	0.969														
27.0	1479.2	0.967														

Cruise: BARTLT 1301-82 Sample: 21-5 Date: 10/18/81
Position: 15-07N;69-24W Depth: 3937m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1527.9	0.999														
0.0	1519.9	0.994														
1.0	1514.6	0.990														
2.0	1503.4	0.983														
3.0	1492.6	0.976														
4.0	1492.6	0.976														
5.0	1489.4	0.974														
6.0	1488.6	0.973														
7.0	1488.6	0.973														
8.0	1488.6	0.973														
9.0	1487.2	0.972														
10.0	1487.5	0.973														
11.0	1488.3	0.973														
12.0	1487.9	0.973														
13.0	1488.3	0.973														
14.0	1486.4	0.972														
15.0	1484.3	0.970														
16.0	1481.4	0.969														
17.0	1480.7	0.968														
18.0	1479.6	0.967														
19.0	1479.9	0.968														
20.0	1479.6	0.967														
21.0	1478.1	0.966														
22.0	1479.2	0.967														
23.0	1479.2	0.967														
24.0	1479.2	0.967														
25.0	1480.7	0.968														
26.0	1479.6	0.967														
27.0	1477.8	0.966														
28.0	1477.8	0.966														
29.0	1478.1	0.966														

Cruise: BARTLT 1301-82 Sample: 21-9 Date: 10/18/81
Position: 15-07N;69-24W Depth: 3937m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.1	1.000														
0.0	1518.8	0.993														
1.0	1504.5	0.984						5.90								
2.0	1499.6	0.981														
3.0	1484.8	0.977														
4.0	1493.0	0.976														
5.0	1491.5	0.975														
6.0	1491.5	0.975														
7.0	1491.5	0.975						40.40								
8.0	1488.6	0.973														
9.0	1491.2	0.975						36.30								
10.0	1490.8	0.975														
11.0	1485.4	0.971														
12.0	1485.4	0.971														
13.0	1485.4	0.971						36.30								
14.0	1484.6	0.971														
15.0	1484.6	0.971														
16.0	1484.6	0.971														
17.0	1481.7	0.969						20.80								
18.0	1481.7	0.969														
19.0	1480.3	0.968														
20.0	1479.6	0.967														
21.0	1478.5	0.967						21.40								
22.0	1480.3	0.968														
23.0	1478.1	0.966														
24.0	1478.5	0.967														
25.0	1478.5	0.967						20.20								
26.0	1478.5	0.967														
27.0	1477.1	0.966														
28.0	1476.0	0.965														
29.0	1477.4	0.966						23.70								
30.0	1476.3	0.965														
31.0	1474.9	0.964														
32.0	1479.9	0.968														
33.0								19.00								

Cruise: BARTLT 1301-82 Sample: 22-2* Date: 10/19/81
Position: 15-07N;69-22W Depth: 3934m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1572.4	1.028														
2.0	1551.2	1.014														
3.0	1541.8	1.008														
4.0	1537.9	1.006														
5.0	1535.9	1.004														
6.0	1528.6	0.999														
7.0	1518.3	0.993														
8.0	1512.7	0.989														
9.0	1511.5	0.988														
10.0	1508.5	0.986														
11.0	1506.7	0.985														
12.0	1506.7	0.985														
13.0	1503.7	0.983														
14.0	1503.7	0.983														
15.0	1502.2	0.982														
16.0	1502.2	0.982														
17.0	1502.2	0.982														
18.0	1502.2	0.982														
19.0	1500.0	0.981														
20.0	1498.5	0.980														
21.0	1498.5	0.980														
22.0	1498.5	0.980														
23.0	1495.2	0.978														
24.0	1496.3	0.978														
25.0	1495.9	0.978														
26.0	1494.5	0.977														
27.0	1494.8	0.977														
28.0	1495.2	0.978														
29.0	1493.0	0.976														
30.0	1493.4	0.976														
31.0	1490.8	0.975														
32.0	1494.1	0.977														
33.0	1491.9	0.976														
34.0	1498.5	0.980														

*Acoustic Data in Error

Cruise: BARTLT 1301-82 Sample: 23-1 Date: 10/19/81
Position: 15-07N;69-24W Depth: 3933m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1495.6	0.978	0.835					10.70								
2.0	1494.8	0.977	0.820													
3.0	1496.7	0.979	0.820													
4.0	1498.9	0.980	0.922													
5.0	1497.8	0.979	0.903					14.30								
6.0	1498.5	0.980	0.942													
7.0	1498.9	0.980	0.964					36.30								
8.0	1498.9	0.980	1.012													
9.0	1498.5	0.980	1.066													
10.0	1501.5	0.982	1.131													
11.0	1500.7	0.981	1.169					40.40								
12.0	1498.5	0.980	1.066													
13.0	1498.5	0.980	1.038					45.20								
14.0	1496.3	0.978	0.964													
15.0	1495.9	0.978	0.964													
16.0	1495.2	0.978	0.964													
17.0	1494.5	0.977	0.942					46.40								
18.0	1493.4	0.976	0.851													
19.0	1492.6	0.976	0.805					36.30								
20.0	1491.5	0.975	0.740													
21.0	1489.7	0.974	0.717													
22.0	1488.6	0.973	0.638													
23.0	1489.0	0.974	0.588					27.40								
24.0	1488.2	0.973	0.620													
25.0	1489.7	0.974	0.656					28.50								
26.0	1490.1	0.974	0.675													
27.0	1489.3	0.974	0.638													
28.0	1489.3	0.974	0.638													
29.0	1488.2	0.973	0.588					25.60								
30.0	1488.6	0.973	0.588													
31.0	1489.3	0.974	0.638					29.10								
32.0	1490.4	0.975	0.696													
33.0	1490.4	0.975	0.675													
34.0	1491.2	0.975	0.604													
35.0	1490.1	0.974	0.573													
36.0	1487.5	0.973	0.588													
37.0	1488.6	0.973	0.558													
38.0	1486.8	0.972	0.518													

Cruise: BARTLT 1301-82 Sample: 23-2 Date: 10/19/81
Position: 15-07N;69-24W Depth: 3933m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1497.4	0.979	0.820													
2.0	1497.8	0.979	0.835													
3.0	1499.3	0.980	0.820													
4.0	1501.8	0.982	0.820													
5.0	1502.6	0.982	0.942													
6.0	1502.2	0.982	1.012													
7.0	1502.2	0.982	1.012													
8.0	1503.7	0.983	1.082													
9.0	1505.5	0.984	1.131													
10.0	1506.3	0.985	1.131													
11.0	1504.8	0.984	1.234													
12.0	1502.9	0.983	1.097													
13.0	1501.1	0.982	0.987													
14.0	1502.9	0.983	1.066													
15.0	1500.7	0.981	1.066													
16.0	1498.5	0.980	0.964													
17.0	1497.0	0.979	0.922													
18.0	1496.3	0.978	0.820													
19.0	1495.2	0.978	0.778													
20.0	1493.7	0.977	0.717													
21.0	1492.3	0.976	0.706													
22.0	1490.5	0.975	0.685													
23.0	1489.7	0.974	0.638													
24.0	1488.3	0.973	0.620													
25.0	1488.6	0.973	0.675													
26.0	1487.9	0.973	0.696													
27.0	1488.3	0.973	0.696													
28.0	1489.0	0.974	0.696													
29.0	1487.9	0.973	0.620													
30.0	1487.2	0.972	0.604													
31.0	1488.6	0.973	0.675													
32.0	1488.6	0.973	0.717													
33.0	1487.6	0.973	0.740													
34.0	1488.3	0.973	0.638													
35.0	1487.6	0.973	0.558													
36.0	1487.6	0.973	0.518													
37.0	1486.5	0.972	0.544													
38.0	1487.6	0.973	0.656													

Cruise: BARTLT 1301-82 Sample: 24-3 Date: 10/19/81
Position: 15-06N;69-24W Depth: 3936m
Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1516.0	0.991														
2.0	1518.7	0.993														
3.0	1516.8	0.992														
4.0	1509.6	0.987														
5.0	1507.4	0.986														
6.0	1502.9	0.983														
7.0	1497.4	0.979														
8.0	1495.2	0.978														
9.0	1495.2	0.978														
10.0	1495.2	0.978														
11.0	1492.6	0.976														
12.0	1492.6	0.976														
13.0	1492.6	0.976														
14.0	1495.2	0.978														
15.0	1493.7	0.977														
16.0	1493.4	0.976														
17.0	1493.4	0.976														
18.0	1492.3	0.976														
19.0	1491.9	0.976														
20.0	1490.8	0.975														
21.0	1489.0	0.974														
22.0	1488.3	0.973														
23.0	1487.2	0.972														
24.0	1487.2	0.972														
25.0	1486.5	0.972														
26.0	1489.0	0.974														
27.0	1489.0	0.974														
28.0	1489.7	0.974														
29.0	1492.6	0.976														
30.0	1487.9	0.973														
31.0	1486.5	0.972														

Cruise: BARTLT 1301-82 Sample: 24-4 Date: 10/19/81
Position: 15-06N;69-24W Depth: 3936m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.270	0.051									
2.0																
3.0						0.261	0.053									
4.0																
5.0						0.232	0.049									

Cruise: BARTLT 1301-82 Sample: 24-6 Date: 10/19/81
Position: 15-06N;69-24W Depth: 3936m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1532.5	1.002														
2.0	1502.2	0.982														
3.0	1496.7	0.979														
4.0	1495.2	0.978														
5.0	1493.4	0.976														
6.0	1493.4	0.976														
7.0	1494.1	0.977														
8.0	1494.1	0.977														
9.0	1494.1	0.977														
10.0	1494.1	0.977														
11.0	1493.4	0.976														
12.0	1493.4	0.976														
13.0	1494.5	0.977														
14.0	1494.5	0.977														
15.0	1495.2	0.978														
16.0	1494.5	0.977														
17.0	1492.3	0.976														
18.0	1491.5	0.975														
19.0	1491.9	0.976														
20.0	1492.3	0.976														
21.0	1490.5	0.975														
22.0	1489.4	0.974														
23.0	1488.3	0.973														
24.0	1487.2	0.972														
25.0	1487.2	0.972														
26.0	1487.9	0.973														
27.0	1486.5	0.972														
28.0	1486.5	0.972														
29.0	1481.8	0.969														
30.0	1485.4	0.971														
31.0	1485.4	0.971														
32.0	1485.4	0.971														
33.0	1487.9	0.973														

Cruise: BARTLT 1301-82 Sample: 24-7 Date: 10/19/81
Position: 15-06N;69-24W Depth: 3936m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1536.7	1.005														
0.0	1526.7	0.998														
1.0	1517.2	0.992														
2.0	1513.0	0.989														
3.0	1508.9	0.987														
4.0	1504.8	0.984														
5.0	1500.7	0.981														
6.0	1500.7	0.981														
7.0	1498.5	0.980														
8.0	1498.5	0.980														
9.0	1498.5	0.980														
10.0	1498.5	0.980														
11.0	1498.5	0.980														
12.0	1498.5	0.980														
13.0	1499.6	0.981														
14.0	1498.9	0.980														
15.0	1498.5	0.980														
16.0	1497.8	0.979														
17.0	1497.8	0.979														
18.0	1496.3	0.978														
19.0	1495.2	0.978														
20.0	1493.0	0.976														
21.0	1493.0	0.976														
22.0	1491.5	0.975														
23.0	1491.5	0.975														
24.0	1492.3	0.976														
25.0	1491.2	0.975														
26.0	1489.0	0.974														
27.0	1491.2	0.975														
28.0	1489.7	0.974														
29.0	1490.8	0.975														
30.0	1487.5	0.973														
31.0	1485.4	0.971														
32.0	1488.6	0.973														
33.0	1488.6	0.973														

Cruise: BARTLT 1301-82 Sample: 24-8-1 Date: 10/19/81
Position: 15-06N;69-24W Depth: 3936m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1520.0	0.994														
2.0	1502.8	0.983														
3.0	1502.0	0.982														
4.0	1498.3	0.980														
5.0	1500.2	0.981														
6.0	1505.4	0.984														
7.0	1498.7	0.980														
8.0	1498.7	0.980														
9.0	1498.7	0.980														
10.0	1498.7	0.980														
11.0	1498.7	0.980														
12.0	1499.4	0.980														
13.0	1498.7	0.980														
14.0	1498.7	0.980														
15.0	1497.6	0.979														
16.0	1497.6	0.979														
17.0	1497.2	0.979														
18.0	1496.1	0.978														
19.0	1494.7	0.977														
20.0	1493.9	0.977														
21.0	1493.9	0.977														
22.0	1492.8	0.976														
23.0	1493.2	0.976														
24.0	1493.6	0.977														
25.0	1493.6	0.977														
26.0	1493.6	0.977														
27.0	1493.2	0.976														
28.0	1492.1	0.976														
29.0	1492.1	0.976														
30.0	1493.2	0.976														
31.0	1486.3	0.972														
32.0	1489.5	0.974														
33.0	1489.5	0.974														
34.0	1489.5	0.974														
35.0	1489.5	0.974														

Cruise: BARTLT 1301-82 Sample: 24-8-2 Date: 10/19/81
Position: 15-06N;69-24W Depth: 3936m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1523.6	0.996														
2.0	1501.1	0.982														
3.0	1497.4	0.979														
4.0	1501.5	0.982														
5.0	1495.2	0.978														
6.0	1494.5	0.977														
7.0	1494.8	0.977														
8.0	1494.8	0.977														
9.0	1494.8	0.977														
10.0	1494.8	0.977														
11.0	1494.8	0.977														
12.0	1494.8	0.977														
13.0	1495.2	0.978														
14.0	1493.7	0.977														
15.0	1493.7	0.977														
16.0	1492.6	0.976														
17.0	1492.6	0.976														
18.0	1491.2	0.975														
19.0	1489.7	0.974														
20.0	1489.0	0.974														
21.0	1487.6	0.973														
22.0	1486.5	0.972														
23.0	1486.5	0.972														
24.0	1486.5	0.972														
25.0	1486.5	0.972														
26.0	1486.5	0.972														
27.0	1485.0	0.971														
28.0	1485.0	0.971														
29.0	1485.0	0.971														
30.0	1484.3	0.971														
31.0	1484.3	0.971														
32.0	1478.2	0.967														
33.0	1483.6	0.970														
34.0	1484.3	0.971														
35.0	1485.4	0.971														

Cruise: BARTLT 1301-82 Sample: 24-8-3 Date: 10/19/81
Position: 15-06N;69-24W Depth: 3936m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1497.0	0.979														
2.0	1498.9	0.980														
3.0	1499.6	0.981														
4.0	1500.0	0.981														
5.0	1500.0	0.981														
6.0	1499.6	0.981														
7.0	1499.6	0.981														
8.0	1500.7	0.981														
9.0	1498.1	0.980														
10.0	1498.5	0.980														
11.0	1497.4	0.979														
12.0	1498.1	0.980														
13.0	1497.8	0.979														
14.0	1497.8	0.979														
15.0	1497.4	0.979														
16.0	1493.7	0.977														
17.0	1493.0	0.976														
18.0	1491.9	0.976														
19.0	1489.7	0.974														
20.0	1487.9	0.973														
21.0	1486.8	0.972														
22.0	1485.7	0.971														
23.0	1486.8	0.972														
24.0	1486.5	0.972														
25.0	1487.2	0.972														
26.0	1486.8	0.972														
27.0	1486.1	0.972														
28.0	1486.1	0.972														
29.0	1485.4	0.971														
30.0	1486.1	0.972														
31.0	1487.2	0.972														
32.0	1486.5	0.972														
33.0	1485.7	0.971														
34.0	1485.7	0.971														
35.0	1486.5	0.972														

Cruise: BARTLT 1301-82 Sample: 24-8-4 Date: 10/19/81
Position: 15-06N;69-24W Depth: 3936m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1500.0	0.981														
2.0	1498.9	0.980														
3.0	1500.7	0.981														
4.0	1500.7	0.981														
5.0	1501.1	0.982														
6.0	1499.3	0.980														
7.0	1500.0	0.981														
8.0	1501.1	0.982														
9.0	1501.8	0.982														
10.0	1502.6	0.982														
11.0	1502.2	0.982														
12.0	1501.8	0.982														
13.0	1503.3	0.983														
14.0	1501.1	0.982														
15.0	1498.1	0.980														
16.0	1497.0	0.979														
17.0	1495.2	0.978														
18.0	1496.3	0.978														
19.0	1494.8	0.977														
20.0	1491.9	0.976														
21.0	1490.5	0.975														
22.0	1489.7	0.974														
23.0	1490.8	0.975														
24.0	1490.5	0.975														
25.0	1490.8	0.975														
26.0	1490.8	0.975														
27.0	1489.7	0.974														
28.0	1488.6	0.973														
29.0	1489.0	0.974														
30.0	1489.7	0.974														
31.0	1490.1	0.974														
32.0	1488.6	0.973														
33.0	1489.7	0.974														
34.0	1487.6	0.973														
35.0	1490.5	0.975														

Cruise: BARTLT 1301-82 Sample: 24-8-5 Date: 10/19/81
Position: 15-06N;69-24W Depth: 3936m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1508.7	0.986														
2.0	1497.2	0.979														
3.0	1496.9	0.979														
4.0	1496.9	0.979														
5.0	1495.8	0.978														
6.0	1496.1	0.978														
7.0	1495.8	0.978														
8.0	1496.5	0.978														
9.0	1496.9	0.979														
10.0	1497.6	0.979														
11.0	1497.2	0.979														
12.0	1497.2	0.979														
13.0	1497.6	0.979														
14.0	1496.9	0.979														
15.0	1495.4	0.978														
16.0	1493.9	0.977														
17.0	1492.5	0.976														
18.0	1492.1	0.976														
19.0	1490.6	0.975														
20.0	1488.8	0.973														
21.0	1488.5	0.973														
22.0	1488.5	0.973														
23.0	1488.1	0.973														
24.0	1487.7	0.973														
25.0	1487.7	0.973														
26.0	1487.7	0.973														
27.0	1487.7	0.973														
28.0	1487.0	0.972														
29.0	1486.3	0.972														
30.0	1486.6	0.972														
31.0	1487.0	0.972														
32.0	1487.0	0.972														
33.0	1487.0	0.972														
34.0	1487.4	0.973														
35.0	1487.4	0.973														
36.0	1487.7	0.973														

Cruise: BARTLT 1301-82 Sample: 26-1 Date: 10/21/81
Position: 15-06N;69-22W Depth: 3940m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.1	1.000														
0.0	1520.3	0.994														
1.0	1505.0	0.984														
2.0	1500.5	0.981														
3.0	1498.7	0.980														
4.0	1498.7	0.980														
5.0	1499.4	0.980														
6.0	1499.4	0.980														
7.0	1499.8	0.981														
8.0	1502.4	0.982														
9.0	1502.0	0.982														
10.0	1501.3	0.982														
11.0	1502.8	0.983														
12.0	1503.9	0.983														
13.0	1503.9	0.983														
14.0	1502.8	0.983														
15.0	1502.8	0.983														
16.0	1502.8	0.983														
17.0	1502.4	0.982														
18.0	1500.5	0.981														
19.0	1498.7	0.980														
20.0	1494.3	0.977														
21.0	1493.6	0.977														
22.0	1492.5	0.976														
23.0	1491.0	0.975														
24.0	1489.6	0.974														
25.0	1490.3	0.974														
26.0	1488.8	0.973														
27.0	1489.9	0.974														
28.0	1489.6	0.974														
29.0	1488.8	0.973														
30.0	1488.8	0.973														

Cruise: BARTLT 1301-82 Sample: 26-2 Date: 10/21/81
Position: 15-06N;69-22W Depth: 3940m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.9	1.000														
0.0	1527.9	0.999														
1.0	1508.3	0.986		83.0	63.73				51.21	10.92	37.86	5.17	4.35	0.47	0.58	0.37
2.0	1503.9	0.983														
3.0	1500.9	0.981		77.3	63.98				43.18	10.63	46.12	6.19	4.26	-0.09	0.56	0.36
4.0	1500.2	0.981														
5.0	1500.2	0.981		76.4	66.53				46.90	12.31	40.79	5.82	4.31	0.16	0.58	0.37
6.0	1500.2	0.981														
7.0	1501.6	0.982		75.3	64.37				43.04	13.77	43.19	6.14	4.24	0.00	0.58	0.37
8.0	1501.6	0.982														
9.0	1500.9	0.981		75.0	67.42				45.47	13.41	41.12	5.91	4.24	0.10	0.57	0.36
10.0	1502.4	0.982														
11.0	1504.6	0.984		73.7	67.13				45.92	14.05	40.02	5.83	4.18	0.14	0.57	0.36
12.0	1505.7	0.985														
13.0	1505.3	0.984		72.7	65.60				45.48	14.39	40.13	5.84	4.25	0.14	0.58	0.37
14.0	1506.5	0.985														
15.0	1506.1	0.985		71.5	66.50				41.87	15.98	42.15	6.08	4.22	0.07	0.58	0.37
16.0	1505.7	0.985														
17.0	1503.1	0.983		71.8	67.89				38.02	16.57	45.41	6.36	4.18	-0.10	0.58	0.37
18.0	1501.6	0.982														
19.0	1499.8	0.981		72.3	67.12				33.27	18.48	48.25	6.71	4.13	-0.20	0.60	0.38
20.0	1498.3	0.980														
21.0	1496.1	0.978		72.7	67.24				29.55	20.58	49.87	6.92	4.06	-0.26	0.64	0.39
22.0	1495.8	0.978														
23.0	1493.2	0.976		73.2	68.47				26.12	21.85	52.04	7.15	4.01	-0.31	0.70	0.41
24.0	1492.1	0.976														
25.0	1490.3	0.974		74.5	70.75				28.68	23.36	47.96	6.89	3.98	-0.17	0.67	0.40
26.0	1490.6	0.975														
27.0	1491.0	0.975		74.4	72.57				32.12	22.50	45.38	6.64	3.97	-0.09	0.63	0.39
28.0	1491.7	0.975														
29.0	1491.0	0.975		74.9	74.59				31.08	23.14	45.78	6.68	3.96	-0.12	0.65	0.39
30.0	1490.3	0.974														
31.0	1489.2	0.974		75.4	73.59				23.67	22.40	53.93	7.40	3.77	-0.35	0.75	0.43
32.0	1489.6	0.974														
33.0	1489.2	0.974		75.0	72.66				28.28	22.25	49.39	7.04	3.90	-0.23	0.68	0.40
34.0																
35.0				73.7	67.51				23.34	23.49	53.17	7.38	3.82	-0.29	0.77	0.43
36.0																
37.0				72.6	67.40				22.21	24.24	53.55	7.46	3.82	-0.29	0.81	0.45

Cruise: BARTLT 1301-82 Sample: 26-3 Date: 10/21/81
Position: 15-06N;69-22W Depth: 3940m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.9	1.000														
0.0	1512.1	0.989														
1.0	1500.2	0.981							53.27	10.49	36.22	5.15	4.15	0.41	0.56	0.36
2.0	1499.8	0.981														
3.0	1500.2	0.981														
4.0	1501.3	0.982														
5.0	1503.9	0.983														
6.0	1502.0	0.982														
7.0	1501.6	0.982														
8.0	1501.6	0.982														
9.0	1502.4	0.982														
10.0	1505.0	0.984														
11.0	1505.3	0.984														
12.0	1505.3	0.984														
13.0	1505.3	0.984														
14.0	1505.7	0.985														
15.0	1505.7	0.985														
16.0	1505.0	0.984														
17.0	1502.8	0.983														
18.0	1501.3	0.982														
19.0	1496.9	0.979														
20.0	1497.6	0.979														
21.0	1493.9	0.977														
22.0	1490.6	0.975														
23.0	1490.3	0.974														
24.0	1490.3	0.974														
25.0	1490.3	0.974														
26.0	1491.0	0.975														
27.0	1491.0	0.975														
28.0	1489.6	0.974														
29.0	1489.9	0.974														
30.0	1487.4	0.973														
31.0	1482.3	0.969														
32.0	1489.2	0.974														
33.0	1488.1	0.973														

Cruise: BARTLT 1301-82 Sample: 26-4 Date: 10/21/81
Position: 15-06N;69-22W Depth: 3940m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.5	1.001	0.000													
0.0	1503.7	0.983	0.679													
1.0	1501.8	0.982	0.790													
2.0	1498.9	0.980	0.772													
3.0	1498.9	0.980	0.738													
4.0	1500.0	0.981	0.738													
5.0	1500.7	0.981	0.899													
6.0	1502.2	0.982	0.954													
7.0	1501.5	0.982	0.954													
8.0	1501.5	0.982	0.954													
9.0	1502.9	0.983	1.019													
10.0	1503.7	0.983	1.019													
11.0	1503.3	0.983	1.056													
12.0	1503.3	0.983	1.019													
13.0	1502.6	0.982	0.954													
14.0	1501.8	0.982	0.939													
15.0	1500.7	0.981	0.925													
16.0	1499.3	0.980	0.887													
17.0	1497.4	0.979	0.810													
18.0	1496.7	0.979	0.707													
19.0	1494.1	0.977	0.693													
20.0	1491.9	0.976	0.640													
21.0	1490.1	0.974	0.628													
22.0	1490.1	0.974	0.605													
23.0	1489.7	0.974	0.628													
24.0	1489.7	0.974	0.652													
25.0	1489.7	0.974	0.665													
26.0	1490.1	0.974	0.679													
27.0	1489.0	0.974	0.616													
28.0	1489.0	0.974	0.563													
29.0	1487.2	0.972	0.563													
30.0	1489.0	0.974	0.628													
31.0	1489.0	0.974	0.679													
32.0	1489.7	0.974	0.679													
33.0	1490.5	0.975	0.616													

Cruise: BARTLT 1301-82 Sample: 28-1 Date: 10/22/81
Position: 15-07N;69-20W Depth: 3949m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1532.7	1.002	-0.014													
0.0	1513.7	0.990	0.618													
1.0	1501.5	0.982	0.732					6.50								
2.0	1500.4	0.981	0.779													
3.0	1500.7	0.981	0.834													
4.0	1501.1	0.981	0.779													
5.0	1500.0	0.981	0.806					21.40								
6.0	1501.5	0.982	0.865													
7.0	1500.0	0.981	0.957					34.50								
8.0	1501.8	0.982	1.002													
9.0	1502.6	0.982	1.052													
10.0	1501.5	0.982	1.052													
11.0	1501.5	0.982	1.052					43.40								
12.0	1501.5	0.982	1.026													
13.0	1502.6	0.982	1.081					44.00								
14.0	1500.7	0.981	1.052													
15.0	1500.7	0.981	0.979													
16.0	1498.9	0.980	0.957													
17.0	1497.4	0.979	0.937					41.60								
18.0	1494.8	0.977	0.865													
19.0	1494.8	0.977	0.834					30.60								
20.0	1493.0	0.976	0.710													
21.0	1492.3	0.976	0.603													
22.0	1491.6	0.975	0.618													
23.0	1491.2	0.975	0.603					30.00								
24.0	1491.2	0.975	0.603													
25.0	1491.2	0.975	0.635					31.50								
26.0	1491.2	0.975	0.652													

Cruise: BARTLT 1301-82 Sample: 28-2* Date: 10/22/81
Position: 15-07N;69-20W Depth: 3949m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1569.3	1.026	-0.012													
0.0	1549.4	1.013	0.638													
1.0	1536.6	1.005	0.775						48.57	12.25	39.18	5.58	4.36	0.27	0.58	0.37
2.0	1535.8	1.004	0.844													
3.0	1535.8	1.004	0.871													
4.0	1535.8	1.004	0.899													
5.0	1535.8	1.004	0.964													
6.0	1536.2	1.004	0.947													
7.0	1536.6	1.005	0.947													
8.0	1536.9	1.005	0.964													
9.0	1536.6	1.005	0.982													
10.0	1535.0	1.004	1.002													
11.0	1535.8	1.004	1.002													
12.0	1537.3	1.005	0.947													
13.0	1536.6	1.005	0.930													
14.0	1536.2	1.004	0.844													
15.0	1536.2	1.004	0.871													
16.0	1533.9	1.003	0.844													
17.0	1533.5	1.003	0.786													
18.0	1532.7	1.002	0.726													
19.0	1531.2	1.001	0.652													
20.0	1527.3	0.999	0.638													
21.0	1524.3	0.997	0.585													
22.0	1525.4	0.997	0.585													
23.0	1525.4	0.997	0.597													
24.0	1525.4	0.997	0.652													

*Acoustic Data in Error

Cruise: BARTL1 1301-82 Sample: 29-1 Date: 10/23/81
Position: 15-03N;69-21W Depth: 3959m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.2	1.001	0.000													
0.0	1515.2	0.991	0.558													
1.0	1498.9	0.980	0.696					8.40								
2.0	1496.3	0.978	0.791													
3.0	1495.6	0.978	0.867													
4.0	1496.7	0.979	0.885													
5.0	1496.3	0.978	0.835					22.00								
6.0	1496.3	0.978	0.885													
7.0	1495.2	0.978	0.922					36.30								
8.0	1496.3	0.978	0.942													
9.0	1496.3	0.978	0.942													
10.0	1496.3	0.978	0.964													
11.0	1496.7	0.979	1.012					47.60								
12.0	1499.6	0.981	0.964													
13.0	1497.8	0.979	0.964					51.70								
14.0	1497.8	0.979	0.922													
15.0	1496.7	0.979	0.885													
16.0	1495.9	0.978	0.964													
17.0	1493.7	0.977	0.922					47.00								
18.0	1495.2	0.978	0.791													
19.0	1491.2	0.975	0.696					41.60								
20.0	1491.9	0.976	0.638													
21.0	1490.8	0.975	0.638													
22.0	1489.4	0.974	0.620													
23.0	1488.6	0.973	0.573					34.50								
24.0	1488.3	0.973	0.573													
25.0	1489.0	0.974	0.638					28.40								
26.0	1489.4	0.974	0.620													
27.0	1489.4	0.974	0.638													
28.0	1489.7	0.974	0.675													
29.0	1490.5	0.975	0.717					34.50								
30.0																
31.0								24.90								

Cruise: BARTLT 1301-82 Sample: 29-2 Date: 10/23/81
Position: 15-03N;69-21W Depth: 3959m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1532.4	1.002	0.820													
0.0	1517.5	0.992	0.573													
1.0	1500.0	0.981	0.765													
2.0	1498.5	0.980	0.820													
3.0	1497.0	0.979	0.835													
4.0	1497.4	0.979	0.835													
5.0	1498.1	0.980	0.885													
6.0	1498.5	0.980	0.942													
7.0	1497.4	0.979	0.942													
8.0	1498.1	0.980	0.987													
9.0	1498.1	0.980	1.038													
10.0	1498.9	0.980	1.066													
11.0	1499.6	0.981	1.066													
12.0	1498.5	0.980	0.987													
13.0	1500.4	0.981	0.922													
14.0	1498.9	0.980	0.922													
15.0	1498.5	0.980	0.964													
16.0	1496.7	0.979	0.922													
17.0	1498.7	0.979	0.867													
18.0	1495.9	0.978	0.820													
19.0	1494.8	0.977	0.765													
20.0	1494.1	0.977	0.729													
21.0	1493.0	0.976	0.656													
22.0	1490.5	0.975	0.638													
23.0	1489.4	0.974	0.604													
24.0	1489.4	0.974	0.588													
25.0	1489.4	0.974	0.638													
26.0	1490.5	0.975	0.717													
27.0	1491.6	0.975	0.717													
28.0	1491.2	0.975	0.696													
29.0	1491.6	0.975	0.638													
30.0	1492.3	0.976	0.717													
31.0	1491.6	0.975	0.675													

Cruise: BARTLT 1301-82 Sample: 29-3 Date: 10/23/81
Position: 15-03N69-21W Depth: 3959m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm.)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.1	1.000	0.000													
0.0	1528.5	0.999	0.218													
1.0	1507.8	0.986	0.820					7.70								
2.0	1495.6	0.978	0.729													
3.0	1497.0	0.979	0.778													
4.0	1497.0	0.979	0.885													
5.0	1498.1	0.980	0.903					22.00								
6.0	1498.9	0.980	0.903													
7.0	1498.5	0.980	0.885					35.10								
8.0	1498.9	0.980	0.964													
9.0	1498.9	0.980	1.012													
10.0	1498.5	0.980	1.012													
11.0	1499.6	0.981	1.066					41.60								
12.0	1500.4	0.981	1.066													
13.0	1500.0	0.981	0.964					48.70								
14.0	1500.4	0.981	0.922													
15.0	1500.4	0.981	0.964													
16.0	1500.0	0.981	0.964													
17.0	1497.8	0.979	0.867					35.70								
18.0	1496.3	0.978	0.778													
19.0	1495.2	0.978	0.740					44.00								
20.0	1493.7	0.977	0.685													
21.0	1493.0	0.976	0.696													
22.0	1491.6	0.975	0.685													
23.0	1490.5	0.975	0.604					39.80								
24.0	1489.4	0.974	0.588													
25.0	1489.0	0.974	0.638					43.40								
26.0	1490.1	0.974	0.717													
27.0	1491.2	0.975	0.717													
28.0	1489.7	0.974	0.656													
29.0	1489.4	0.974	0.604					36.90								
30.0	1490.5	0.975	0.638													
31.0	1490.5	0.975	0.656					33.90								
32.0	1490.1	0.974	0.696													
33.0	1491.2	0.975	0.717													
34.0	1490.8	0.975	0.717													

Cruise: BARTLT 1301-82 Sample: 29-4 Date: 10/23/81
Position: 15-03N;69-21W Depth: 3959m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.332	0.054									
2.0																
3.0						0.315	0.044									
4.0																
5.0						0.332	0.047									
6.0																
7.0						0.280	0.041									
8.0																
9.0						0.247	0.036									
10.0																
11.0						0.222	0.034									
12.0																
13.0						0.224	0.044									
14.0																
15.0						0.209	0.042									
16.0																
17.0						0.192	0.043									
18.0																
19.0						0.178	0.044									
20.0																
21.0						0.174	0.043									
22.0																
23.0						0.147	0.036									
24.0																
25.0						0.150	0.036									
26.0																
27.0						0.124	0.034									
28.0																
29.0						0.119	0.036									
30.0																
31.0						0.150	0.038									

Cruise: BARTLT 1301-82 Sample: 29-16 Date: 10/23/81
Position: 15-03N;69-21W Depth: 3959m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.5	1.001	0.000													
0.0	1528.6	0.999	0.102													
1.0	1502.6	0.982	0.638													
2.0	1498.1	0.980	0.717													
3.0	1496.7	0.979	0.740													
4.0	1498.1	0.980	0.740													
5.0	1503.3	0.983	0.675													
6.0	1498.1	0.980	0.717													
7.0	1495.9	0.978	0.805													
8.0	1495.9	0.978	0.885													
9.0	1495.9	0.978	0.964													
10.0	1497.0	0.979	1.066													
11.0	1496.7	0.979	1.038													
12.0	1496.7	0.979	1.066													
13.0	1497.4	0.979	1.038													
14.0	1497.4	0.979	0.987													
15.0	1497.4	0.979	0.964													
16.0	1497.4	0.979	0.903													
17.0	1497.0	0.979	0.885													
18.0	1495.6	0.978	0.851													
19.0	1495.2	0.978	0.820													
20.0	1493.7	0.977	0.752													
21.0	1492.6	0.976	0.717													
22.0	1490.8	0.975	0.729													
23.0	1490.8	0.975	0.729													
24.0	1489.7	0.974	0.638													
25.0	1489.0	0.974	0.675													
26.0	1489.0	0.974	0.656													
27.0	1489.0	0.974	0.696													
28.0	1487.9	0.973	0.675													
29.0	1486.5	0.972	0.656													
30.0	1486.8	0.972	0.620													
31.0	1486.8	0.972	0.740													

Cruise: BARTLT 1301-82 Sample: 30-1 Date: 10/23/81
Position: 15-09N;69-34W Depth: 3945m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1497.4	0.979	0.851					7.70								
2.0	1496.3	0.978	0.885													
3.0	1495.9	0.978	0.885													
4.0	1498.5	0.980	0.820													
5.0	1496.7	0.979	0.885					27.90								
6.0	1496.3	0.978	0.765													
7.0	1496.7	0.979	0.967													
8.0	1495.9	0.978	0.964													
9.0	1495.9	0.978	1.012					42.80								
10.0	1496.7	0.979	1.066													
11.0	1496.7	0.979	1.097													
12.0	1497.8	0.979	1.066													
13.0	1497.8	0.979	1.038					52.90								
14.0	1498.9	0.980	0.964													
15.0	1498.1	0.980	0.922													
16.0	1497.4	0.979	0.942													
17.0	1496.7	0.979	0.922					45.20								
18.0	1495.6	0.978	0.851													
19.0	1493.7	0.977	0.791													
20.0	1491.2	0.975	0.717													
21.0	1490.1	0.974	0.604													
22.0	1488.6	0.973	0.588													
23.0	1488.6	0.973	0.573													
24.0																
25.0								27.90								

Cruise: BARTLT 1301-82 Sample: 30-2 Date: 10/23/81
Position: 15-09N;69-34W Depth: 3945m
Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1507.8	0.986	0.964					7.10								
2.0	1499.3	0.980	0.964													
3.0	1499.3	0.980	0.942													
4.0	1500.0	0.981	0.964													
5.0	1497.8	0.979	0.964													
6.0	1496.7	0.979	1.012													
7.0	1495.9	0.978	1.066					32.10								
8.0	1495.9	0.978	1.012													
9.0	1495.9	0.978	1.038													
10.0	1495.9	0.978	1.066													
11.0	1497.4	0.979	1.038					48.10								
12.0	1497.4	0.979	0.964													
13.0	1497.0	0.979	0.903													
14.0	1496.7	0.979	0.942													
15.0	1497.4	0.979	0.885					40.40								
16.0	1495.6	0.978	0.885													
17.0	1494.1	0.977	0.820													
18.0	1493.4	0.976	0.805													
19.0	1493.4	0.976	0.740					36.30								
20.0	1492.6	0.976	0.706													
21.0	1490.8	0.975	0.656													
22.0	1488.6	0.973	0.588													
23.0	1487.6	0.973	0.558					30.90								
24.0	1487.6	0.973	0.620													
25.0	1487.6	0.973	0.675													
26.0	1489.4	0.974	0.696													
27.0	1489.4	0.974	0.696					26.80								
28.0	1488.3	0.973	0.604													
29.0	1487.2	0.972	0.588													
30.0	1487.2	0.972	0.638													
31.0	1488.3	0.973	0.696					25.60								
32.0	1488.6	0.973	0.675													

Cruise: BARTLT 1301-82 Sample: 30-3 Date: 10/23/81
Position: 15-09N;69-34W Depth: 3945m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1500.0	0.981	0.765													
2.0	1498.2	0.980	0.820													
3.0	1497.1	0.979	0.885					29.70								
4.0	1497.8	0.979	0.885													
5.0	1498.9	0.980	0.964													
6.0	1498.5	0.980	0.964													
7.0	1498.5	0.980	0.964					23.80								
8.0	1498.5	0.980	0.964													
9.0	1498.5	0.980	1.038													
10.0	1498.9	0.980	1.066													
11.0	1500.7	0.981	1.097					46.40								
12.0	1500.7	0.981	1.038													
13.0	1500.4	0.981	1.012													
14.0	1499.3	0.980	1.038													
15.0	1498.5	0.980	0.987					51.10								
16.0	1498.2	0.980	0.964													
17.0	1499.3	0.980	0.942													
18.0	1497.1	0.979	0.885													
19.0	1498.9	0.978	0.820					43.40								
20.0	1494.8	0.977	0.765													
21.0	1493.7	0.977	0.696													
22.0	1491.2	0.975	0.675													
23.0	1491.2	0.975	0.638					27.90								
24.0	1490.1	0.974	0.604													
25.0	1489.4	0.974	0.638													
26.0	1489.4	0.974	0.675													
27.0	1489.4	0.974	0.638					26.20								

Cruise: BARTLT 1301-82 Sample: 30-4 Date: 10/23/81
Position: 15-09N;69-34W Depth: 3945m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1504.4	0.984	0.851					7.10								
2.0	1504.1	0.983	1.038													
3.0	1500.0	0.981	0.987													
4.0	1497.0	0.979	0.922													
5.0	1497.4	0.979	0.885					23.70								
6.0	1495.6	0.978	0.964													
7.0	1494.5	0.977	1.012					30.30								
8.0	1494.5	0.977	1.012													
9.0	1494.5	0.977	1.012													
10.0	1494.8	0.977	0.964													
11.0	1495.2	0.978	1.012					36.90								
12.0	1495.6	0.978	0.964													
13.0	1496.7	0.979	0.885					48.80								
14.0	1497.0	0.979	0.964													
15.0	1495.2	0.978	0.922													
16.0	1493.7	0.977	0.885													
17.0	1493.4	0.976	0.903					45.50								
18.0	1493.4	0.976	0.885													
19.0	1491.6	0.975	0.867					39.20								
20.0	1490.5	0.975	0.740													
21.0	1488.6	0.973	0.717													
22.0	1488.6	0.973	0.638													
23.0	1486.8	0.972	0.573					36.30								
24.0	1487.2	0.972	0.558													
25.0	1486.1	0.972	0.573					30.90								
26.0	1486.1	0.972	0.588													
27.0	1486.8	0.972	0.620													
28.0	1487.6	0.973	0.675													
29.0	1487.2	0.972	0.638					26.80								
30.0	1486.8	0.972	0.588													
31.0	1486.5	0.972	0.573					30.90								
32.0	1486.5	0.972	0.604													

Cruise: BARTLT 1301-82 Sample: 30-5 Date: 10/23/81
Position: 15-09N;69-34W Depth: 3945m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.3	1.000	-0.015													
0.0	1522.5	0.995	0.177													
1.0	1513.0	0.989	0.376													
2.0	1499.6	0.981	0.660													
3.0	1497.0	0.979	0.725													
4.0	1496.7	0.979	0.776													
5.0	1495.6	0.978	0.790													
6.0	1495.6	0.978	0.835													
7.0	1497.4	0.979	0.852													
8.0	1497.4	0.979	0.927													
9.0	1495.6	0.978	0.972													
10.0	1496.3	0.978	0.996													
11.0	1497.0	0.979	0.949													
12.0	1497.0	0.979	1.023													
13.0	1498.1	0.980	1.023													
14.0	1498.5	0.980	0.972													
15.0	1498.1	0.980	0.949													
16.0	1498.1	0.980	0.907													
17.0	1498.1	0.980	0.888													
18.0	1497.8	0.979	0.949													
19.0	1498.1	0.980	0.869													
20.0	1495.6	0.978	0.835													
21.0	1493.0	0.976	0.750													
22.0	1491.6	0.975	0.681													
23.0	1490.1	0.974	0.641													
24.0	1489.0	0.974	0.605													
25.0	1487.9	0.973	0.605													
26.0	1489.7	0.974	0.573													
27.0	1489.4	0.974	0.573													
28.0	1490.1	0.974	0.660													
29.0	1490.5	0.975	0.660													

Cruise: BARTLT 1301-82 Sample: 30-6 Date: 10/23/81
Position: 15-09N;69-34W Depth: 3945m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.0	1.000	0.000													
0.0	1526.2	0.998	0.192													
1.0	1507.4	0.986	0.636					8.30								
2.0	1495.9	0.978	0.765													
3.0	1495.6	0.978	0.835													
4.0	1495.6	0.978	0.903													
5.0	1494.8	0.977	0.903					15.50								
6.0	1494.8	0.977	0.987													
7.0	1495.2	0.978	0.987					29.10								
8.0	1495.2	0.978	0.987													
9.0	1495.2	0.978	0.922													
10.0	1495.2	0.978	1.066													
11.0	1495.2	0.978	1.038					44.60								
12.0	1496.3	0.978	1.038													
13.0	1497.8	0.979	0.987					52.30								
14.0	1498.5	0.980	1.038													
15.0	1497.8	0.979	1.012													
16.0	1497.0	0.979	1.012													
17.0	1497.0	0.979	0.922					53.50								
18.0	1496.7	0.979	0.903													
19.0	1495.6	0.978	0.885					38.70								
20.0	1493.7	0.977	0.805													
21.0	1491.9	0.976	0.696													
22.0	1490.5	0.975	0.638													
23.0	1489.4	0.974	0.604					29.10								
24.0	1488.6	0.973	0.604													
25.0	1488.3	0.973	0.638					31.50								
26.0	1488.6	0.973	0.675													
27.0	1488.6	0.973	0.675													
28.0																
29.0								36.90								

Cruise: BARTLT 1301-82 Sample: 31-1 Date: 10/23/81
Position: 15-04N;69-19W Depth: 3949m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1532.0	1.002	0.000													
0.0	1528.9	1.000	0.218													
1.0	1501.8	0.982	0.765					10.70								
2.0	1500.7	0.981	0.851													
3.0	1499.6	0.981	0.885													
4.0	1499.6	0.981	0.885													
5.0	1499.6	0.981	0.922					29.10								
6.0	1500.7	0.981	0.964													
7.0	1500.7	0.981	1.066					42.60								
8.0	1502.6	0.982	1.097													
9.0	1503.3	0.983	1.066													
10.0	1502.6	0.982	1.038													
11.0	1502.2	0.982	0.987					42.20								
12.0	1500.7	0.981	0.942													
13.0	1500.7	0.981	0.922					39.20								
14.0	1500.0	0.981	0.922													
15.0	1498.9	0.980	0.851													
16.0	1496.7	0.979	0.765													
17.0	1495.6	0.978	0.717					34.50								
18.0	1493.4	0.976	0.666													
19.0	1491.9	0.976	0.604					30.90								
20.0	1490.8	0.975	0.588													
21.0	1490.8	0.975	0.573													
22.0	1490.8	0.975	0.638													
23.0	1491.2	0.975	0.656					27.30								
24.0	1491.2	0.975	0.675													
25.0	1491.2	0.975	0.675					29.70								

Cruise: BARTLT 1301-82 Sample: 31-2 Date: 10/23/81
Position: 15-04N;69-19W Depth: 3949m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.5	1.001	0.000													
0.0	1525.1	0.997	0.370													
1.0	1499.3	0.980	0.765	79.2												
2.0	1496.3	0.978	0.765													
3.0	1495.2	0.978	0.604	76.9												
4.0	1495.2	0.978	0.820													
5.0	1495.6	0.978	0.752	76.7												
6.0	1496.7	0.979	0.820													
7.0	1498.9	0.980	0.835	74.7												
8.0	1498.5	0.980	0.942													
9.0	1497.8	0.979	0.964	73.9												
10.0	1498.9	0.980	1.038													
11.0	1498.9	0.980	1.038													
12.0	1498.9	0.980	1.038													
13.0	1498.5	0.980	0.964													
14.0	1499.3	0.980	0.987													
15.0	1499.3	0.980	0.964													
16.0	1497.4	0.979	0.942													
17.0	1495.6	0.978	0.851													
18.0	1495.2	0.978	0.867													
19.0	1492.3	0.976	0.791													
20.0	1493.4	0.976	0.740													
21.0	1491.9	0.976	0.740													
22.0	1490.8	0.975	0.696													
23.0	1489.4	0.974	0.638													
24.0	1489.4	0.974	0.638													
25.0	1489.0	0.974	0.588													
26.0	1486.8	0.972	0.620													
27.0	1487.6	0.973	0.638													
28.0	1489.4	0.974	0.675													
29.0	1489.0	0.974	0.656													
30.0	1489.0	0.974	0.638													
31.0	1487.9	0.973	0.604													

Cruise: BARTLT 1301-82 Sample: 42-2 Date: 10/29/81
Position: 14-50N;68-59W Depth: 4322m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.371	0.078									

Cruise: BARTLT 1301-82 Sample: 42-8 Date: 10/29/81
Position: 14-50N;68-59W Depth: 4322m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1535.0	1.004	0.098													
0.0	1523.9	0.996	0.276													
1.0	1502.2	0.982	0.635													
2.0	1497.4	0.979	0.635													
3.0	1497.8	0.979	0.690													
4.0	1498.9	0.980	0.732													
5.0	1498.5	0.980	0.792													
6.0	1499.2	0.980	0.806													
7.0	1499.2	0.980	0.820													
8.0	1500.0	0.981	0.865													
9.0	1500.3	0.981	0.899													
10.0	1500.3	0.981	0.957													
11.0	1501.1	0.981	0.937													
12.0	1501.8	0.982	0.882													
13.0	1502.2	0.982	0.899													
14.0	1503.3	0.983	0.937													
15.0	1504.0	0.983	0.979													
16.0	1504.0	0.983	0.957													
17.0	1502.6	0.982	0.957													
18.0	1502.9	0.983	0.979													
19.0	1502.6	0.982	0.957													
20.0	1501.1	0.981	0.957													
21.0	1500.7	0.981	0.937													
22.0	1500.0	0.981	0.882													
23.0	1499.6	0.981	0.834													
24.0	1497.0	0.979	0.849													
25.0	1494.8	0.977	0.820													
26.0	1494.1	0.977	0.820													
27.0	1493.0	0.976	0.779													
28.0	1492.6	0.976	0.732													
29.0	1490.5	0.975	0.635													
30.0	1489.4	0.974	0.603													
31.0	1489.0	0.974	0.587													

Cruise: BARTLT 1301-82 Sample: 42-9 Date: 10/29/81
Position: 14-50N;68-59W Depth: 4322m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.9	1.002	0.000													
0.0	1530.4	1.001	0.182													
1.0	1503.7	0.983	0.710					5.40								
2.0	1500.0	0.981	0.767													
3.0	1500.0	0.981	0.834													
4.0	1500.0	0.981	0.865													
5.0	1500.0	0.981	0.865					20.80								
6.0	1500.0	0.981	0.834													
7.0	1500.0	0.981	0.899					32.70								
8.0	1500.0	0.981	0.899													
9.0	1500.0	0.981	0.937													
10.0	1501.4	0.982	0.957													
11.0	1501.4	0.982	0.957					44.60								
12.0	1501.4	0.982	0.979													
13.0	1502.6	0.982	0.979					47.00								
14.0	1504.4	0.984	1.002													
15.0	1504.4	0.984	1.002													
16.0	1502.6	0.982	0.917													
17.0	1502.6	0.982	0.937					48.20								
18.0	1502.6	0.982	1.002													
19.0	1502.2	0.982	0.979					42.20								
20.0	1501.1	0.981	0.957													
21.0	1501.8	0.982	0.899													
22.0	1501.1	0.981	0.882													
23.0	1497.4	0.979	0.865					26.80								
24.0	1495.9	0.978	0.865													
25.0	1493.4	0.976	0.806					22.60								
26.0	1492.3	0.976	0.732													
27.0	1491.2	0.975	0.721													
28.0	1489.7	0.974	0.618													
29.0	1489.7	0.974	0.587					24.40								

Cruise: BARTLT 1301-82 Sample: 42-10 Date: 10/29/81
Position: 14-50N;68-59W Depth: 4322m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.1	0.999	0.000													
0.0	1527.3	0.999	0.170													
1.0	1502.6	0.982	0.635					7.10								
2.0	1498.9	0.980	0.690													
3.0	1497.8	0.979	0.779													
4.0	1499.2	0.980	0.834													
5.0	1500.0	0.981	0.806					21.40								
6.0	1499.6	0.981	0.834													
7.0	1499.2	0.980	0.899					36.90								
8.0	1499.2	0.980	0.917													
9.0	1498.5	0.980	0.957													
10.0	1499.2	0.980	1.002													
11.0	1500.7	0.981	0.937					43.40								
12.0	1499.2	0.980	0.899													
13.0	1501.4	0.982	0.937					48.70								
14.0	1502.2	0.982	1.026													
15.0	1502.2	0.982	0.979													
16.0	1502.2	0.982	0.937													
17.0	1501.8	0.982	0.937					52.30								
18.0	1502.6	0.982	1.002													
19.0	1500.3	0.981	1.026					38.60								
20.0	1499.2	0.980	0.979													
21.0	1498.5	0.980	0.937													
22.0	1497.8	0.979	0.834													
23.0	1497.0	0.979	0.849					35.10								
24.0	1494.5	0.977	0.806													
25.0	1493.7	0.977	0.820					30.30								
26.0	1492.3	0.976	0.806													
27.0	1490.5	0.975	0.755													
28.0	1489.7	0.974	0.652													
29.0	1488.3	0.973	0.618					28.50								
30.0	1487.6	0.973	0.618													
31.0	1486.8	0.972	0.559													
32.0	1487.2	0.972	0.496													
33.0	1486.1	0.972	0.496													
34.0	1493.0	0.976	0.635													
35.0	1496.3	0.978	0.865													

Cruise: BARTLT 1301-82 Sample: 42-11 Date: 10/29/81
Position: 14-50N;68-59W Depth: 4322m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.4	1.001	0.000													
0.0	1515.6	0.991	0.573													
1.0	1500.0	0.981	0.700	81.3	62.50				56.40	6.51	37.09	4.76	4.36	0.64	0.57	0.36
2.0	1497.0	0.979	0.792													
3.0	1498.5	0.980	0.849	77.9	63.24				54.11	8.39	37.50	4.93	4.33	0.60	0.58	0.37
4.0	1498.1	0.980	0.820													
5.0	1497.4	0.979	0.865	77.0	64.12				52.14	8.21	39.66	5.17	4.33	0.52	0.58	0.37
6.0	1497.0	0.979	0.865													
7.0	1497.0	0.979	0.834	76.5	64.66				50.44	7.56	42.00	5.35	4.33	0.45	0.57	0.37
8.0	1497.4	0.979	0.899													
9.0	1498.1	0.980	0.957	75.2	63.40				52.31	8.77	38.92	5.17	4.37	0.52	0.58	0.37
10.0	1499.6	0.981	1.026													
11.0	1500.7	0.981	1.052	73.5	64.91				51.79	7.73	40.49	5.22	4.34	0.49	0.57	0.36
12.0	1501.8	0.982	1.081													
13.0	1502.9	0.983	1.002	72.6	61.82				46.69	9.93	43.38	5.95	4.34	0.16	0.58	0.37
14.0	1502.2	0.982	0.979													
15.0	1502.2	0.982	0.979	71.3	61.39				41.78	10.31	47.91	6.63	4.37	-0.09	0.57	0.36
16.0	1502.9	0.983	0.957													
17.0	1502.6	0.982	0.899	70.5	60.89				38.23	12.20	49.57	6.90	4.32	-0.21	0.58	0.37
18.0	1499.2	0.980	0.979													
19.0	1499.2	0.980	1.026	70.5	63.27				40.35	12.43	47.22	6.57	4.30	-0.02	0.58	0.37
20.0	1497.8	0.979	0.882													
21.0	1498.1	0.980	0.834	70.5	60.23				34.50	13.10	52.40	7.26	4.26	-0.32	0.61	0.38
22.0	1500.0	0.981	0.937													
23.0	1497.4	0.979	0.937	70.7	65.19				35.43	13.67	50.89	7.06	4.20	-0.28	0.61	0.38
24.0	1496.3	0.978	0.834													
25.0	1489.7	0.974	0.743	72.9	64.50				32.05	13.62	54.33	7.56	4.35	-0.36	0.64	0.39
26.0	1490.5	0.975	0.732													
27.0	1489.0	0.974	0.721	73.9	65.09				34.25	13.06	52.69	7.26	4.22	-0.35	0.62	0.38
28.0	1482.0	0.973	0.690													
29.0	1489.7	0.974	0.743	74.5	62.89				29.72	15.41	54.87	7.44	4.21	-0.36	0.66	0.40
30.0	1489.4	0.974	0.849													
31.0				73.7	62.95				31.42	12.78	55.80	7.59	4.15	-0.41	0.65	0.39
32.0																
33.0				71.5	62.43				29.95	12.44	57.45	7.73	4.15	-0.46	0.66	0.40

Cruise: BARTLT 1301-82 Sample: 42-17 Date: 10/29/81
Position: 14-50N;68-59W Depth: 4322m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.8	1.001	-0.014													
0.0	1525.1	0.997	0.344													
1.0	1502.6	0.982	0.618					5.90								
2.0	1498.5	0.980	0.732													
3.0	1498.9	0.980	0.834													
4.0	1498.5	0.980	0.834													
5.0	1499.6	0.981	0.767					11.30								
6.0	1500.7	0.981	0.792													
7.0	1498.9	0.980	0.882					23.80								
8.0	1500.7	0.981	0.899													
9.0	1499.2	0.980	0.979													
10.0	1500.7	0.981	0.979													
11.0	1502.2	0.982	0.917					40.40								
12.0	1501.8	0.982	0.917													
13.0	1502.6	0.982	0.979					50.50								
14.0	1501.8	0.982	0.937													
15.0	1503.3	0.983	0.957													
16.0	1502.6	0.982	0.979													
17.0	1502.6	0.982	0.979					51.70								
18.0	1501.1	0.981	0.979													
19.0	1498.9	0.980	0.882					39.80								
20.0	1498.9	0.980	0.834													
21.0	1497.8	0.979	0.849													
22.0	1497.8	0.979	0.899													
23.0	1495.6	0.978	0.882					38.10								
24.0	1494.1	0.977	0.865													
25.0	1493.0	0.976	0.806					25.60								
26.0	1491.9	0.976	0.671													
27.0	1489.7	0.974	0.671													

Cruise: BARTLT 1301-82 Sample: 43-1 Date: 10/29/81
Position: 14-45N;68-52W Depth: 4493m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.2	1.001	-0.014													
0.0	1521.6	0.995	0.292													
1.0	1498.9	0.980	0.546					5.90								
2.0	1498.1	0.980	0.618													
3.0	1498.1	0.980	0.635													
4.0	1497.8	0.979	0.603													
5.0	1498.5	0.980	0.603					11.90								
6.0	1498.9	0.980	0.603													
7.0	1498.9	0.980	0.690					25.00								
8.0	1497.8	0.979	0.690													
9.0	1498.9	0.980	0.710													
10.0	1499.2	0.980	0.755													
11.0	1500.0	0.981	0.755					51.70								
12.0	1500.7	0.981	0.671													
13.0	1501.1	0.981	0.767					54.10								
14.0	1501.8	0.982	0.865													
15.0	1501.8	0.982	0.820													
16.0	1501.8	0.982	0.767													
17.0	1502.2	0.982	0.834					62.40								
18.0	1502.2	0.982	0.849													
19.0	1502.2	0.982	0.899					53.50								
20.0	1500.3	0.981	0.834													
21.0	1499.6	0.981	0.806													
22.0	1501.1	0.981	0.806													
23.0	1499.6	0.981	0.732					47.60								
24.0	1497.0	0.979	0.755													
25.0	1493.4	0.976	0.671					34.50								
26.0	1491.9	0.976	0.618													
27.0	1492.6	0.976	0.618													
28.0	1491.9	0.976	0.652													
29.0	1493.7	0.977	0.690					39.20								
30.0	1492.3	0.976	0.690													
31.0	1491.5	0.975	0.635					36.90								
32.0	1491.5	0.975	0.671													
33.0	1492.3	0.976	0.710													
34.0	1492.3	0.976	0.710													
35.0	1492.6	0.976	0.834													

Cruise: BARTLT 1301-82 Sample: 43-2 Date: 10/29/81
Position: 14-45N;68-52W Depth: 4493m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.6	1.001	-0.028													
0.0	1528.9	1.000	0.102													
1.0	1501.1	0.981	0.493					4.20								
2.0	1497.8	0.979	0.531													
3.0	1497.8	0.979	0.573													
4.0	1497.8	0.979	0.638													
5.0	1498.9	0.980	0.675					20.20								
6.0	1498.9	0.980	0.656													
7.0	1500.0	0.981	0.656					29.70								
8.0	1500.0	0.981	0.696													
9.0	1500.3	0.981	0.740													
10.0	1500.3	0.981	0.717													
11.0	1500.3	0.981	0.696					41.60								
12.0	1500.7	0.981	0.675													
13.0	1500.7	0.981	0.656					49.90								
14.0	1500.3	0.981	0.765													
15.0	1502.2	0.982	0.903													
16.0	1501.8	0.982	0.851													
17.0	1503.3	0.983	0.791					61.80								
18.0	1502.9	0.983	0.820													
19.0	1502.9	0.983	0.835					54.10								
20.0	1500.7	0.981	0.820													
21.0	1498.9	0.980	0.752													
22.0	1499.6	0.981	0.675													
23.0	1499.6	0.981	0.729					51.10								
24.0	1493.4	0.976	0.706													
25.0	1495.2	0.978	0.717					41.60								
26.0	1494.8	0.977	0.717													
27.0	1493.4	0.976	0.604													
28.0	1493.4	0.976	0.656													
29.0	1493.7	0.977	0.696					40.40								

Cruise: BARTLT 1301-82 Sample: 43-3 Date: 10/29/81
Position: 14-45N;68-52W Depth: 4493m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.2	1.001	-0.014													
0.0	1490.1	0.974	0.485													
1.0	1503.3	0.983	0.533													
2.0	1502.2	0.982	0.508													
3.0	1501.1	0.981	0.533													
4.0	1499.2	0.980	0.652													
5.0	1499.2	0.980	0.652													
6.0	1499.2	0.980	0.635													
7.0	1500.0	0.981	0.671													
8.0	1499.6	0.981	0.690													
9.0	1499.2	0.980	0.710													
10.0	1498.5	0.980	0.710													
11.0	1498.5	0.980	0.652													
12.0	1499.6	0.981	0.618													
13.0	1500.3	0.981	0.743													
14.0	1501.8	0.982	0.710													
15.0	1502.2	0.982	0.806													
16.0	1502.2	0.982	0.834													
17.0	1503.7	0.983	0.820													
18.0	1503.3	0.983	0.834													
19.0	1503.7	0.983	0.882													
20.0	1501.8	0.982	0.865													
21.0	1501.8	0.982	0.834													
22.0	1499.2	0.980	0.834													
23.0	1499.2	0.980	0.755													
24.0	1499.2	0.980	0.710													
25.0	1498.9	0.980	0.732													
26.0	1495.9	0.978	0.755													
27.0	1494.5	0.977	0.618													
28.0	1494.5	0.977	0.652													
29.0	1493.0	0.976	0.618													
30.0	1492.6	0.976	0.603													
31.0	1492.3	0.976	0.618													
32.0	1493.7	0.977	0.635													
33.0	1493.7	0.977	0.732													
34.0	1492.3	0.976	0.690													
35.0	1490.5	0.975	0.652													

Cruise: BARTLT 1301-82 Sample: 43-6 Date: 10/29/81
Position: 14-45N;68-52W Depth: 4493m
Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.2	1.001	-0.014													
0.0	1517.9	0.992	0.292													
1.0	1502.6	0.982	0.485					6.50								
2.0	1497.4	0.979	0.573													
3.0	1497.8	0.979	0.618													
4.0	1497.8	0.979	0.635													
5.0	1499.2	0.980	0.652					23.80								
6.0	1498.9	0.980	0.690													
7.0	1498.9	0.980	0.710					36.30								
8.0	1499.2	0.980	0.710													
9.0	1498.9	0.980	0.732													
10.0	1498.9	0.980	0.710													
11.0	1498.9	0.980	0.671					56.50								
12.0	1499.2	0.980	0.690													
13.0	1502.2	0.982	0.820					60.60								
14.0	1502.2	0.982	0.849													
15.0	1502.2	0.982	0.779													
16.0	1501.4	0.982	0.779													
17.0	1503.7	0.983	0.865					63.00								
18.0	1505.9	0.985	0.899													
19.0	1502.9	0.983	0.865					52.30								
20.0	1501.4	0.982	0.806													
21.0	1500.3	0.981	0.710													
22.0	1498.5	0.980	0.732													
23.0	1500.0	0.981	0.806					46.40								
24.0	1497.8	0.979	0.792													
25.0	1497.8	0.979	0.820					35.70								
26.0	1492.3	0.976	0.779													

Cruise: BARTLT 1301-82 Sample: 43-15 Date: 10/29/81
Position: 14-45N;68-52W Depth: 4493m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.6	1.001	0.000													
0.0	1523.2	0.996	0.247													
1.0	1502.9	0.983	0.499	81.5	55.10				45.53	9.25	45.23	6.15	4.36	-0.01	0.58	0.37
2.0	1498.1	0.980	0.632													
3.0	1497.8	0.979	0.632	78.7	57.14				55.35	7.94	36.34	4.78	4.29	0.68	0.57	0.36
4.0	1498.1	0.980	0.632													
5.0	1498.5	0.980	0.666	77.4	56.93				45.79	10.39	43.82	6.07	4.30	0.03	0.58	0.37
6.0	1497.4	0.979	0.704													
7.0	1497.4	0.979	0.666	77.1	58.40				46.84	10.15	43.01	6.03	4.32	0.07	0.58	0.37
8.0	1498.1	0.980	0.704													
9.0	1498.9	0.980	0.746	75.8	58.60				46.20	10.69	43.11	6.01	4.32	0.07	0.58	0.37
10.0	1498.9	0.980	0.746													
11.0	1498.9	0.980	0.724	74.6	54.39				39.73	12.92	47.35	6.57	4.25	-0.16	0.58	0.37
12.0	1499.2	0.980	0.714													
13.0	1501.4	0.982	0.820	73.4	55.29				32.67	15.00	52.33	6.90	4.07	-0.40	0.58	0.37
14.0	1501.1	0.981	0.848													
15.0	1502.6	0.982	0.793	72.6	56.40				37.89	13.66	48.45	6.66	4.18	-0.22	0.58	0.37
16.0	1502.6	0.982	0.757													
17.0	1502.6	0.982	0.793	71.3	57.81				35.62	14.93	49.45	6.73	4.03	-0.29	0.58	0.37
18.0	1502.6	0.982	0.820													
19.0	1501.8	0.982	0.793	71.3	57.41				34.07	15.79	50.13	6.87	4.08	-0.28	0.61	0.38
20.0	1500.3	0.981	0.793													
21.0	1498.9	0.980	0.781	71.4	57.30				31.45	16.85	51.70	6.96	3.94	-0.36	0.61	0.38
22.0	1499.2	0.980	0.757													
23.0	1494.1	0.977	0.724	71.5	56.36				31.43	17.74	50.82	6.92	3.92	-0.33	0.62	0.38
24.0	1494.8	0.977	0.704													
25.0	1494.8	0.977	0.757	72.3	58.65				26.56	18.61	54.83	7.26	3.85	-0.41	0.69	0.41
26.0	1494.1	0.977	0.685													
27.0	1494.1	0.977	0.632	72.7	57.78				25.58	19.09	55.32	7.30	3.77	-0.43	0.70	0.41
28.0	1490.5	0.975	0.617													
29.0	1496.3	0.978	0.820	73.0	58.28				26.32	18.44	55.18	7.27	3.77	-0.43	0.69	0.41
30.0																
31.0				71.3	58.65				27.47	19.53	53.00	7.14	3.68	-0.40	0.65	0.39

Cruise: BARTLT 1301-82 Sample: 43-17 Date: 10/29/81
Position: 14-45N;68-52W Depth: 4493m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.344	0.081									

Cruise: BARTLT 1301-82 Sample: 44-3 Date: 10/30/81
Position: 14-19N;68-22W Depth: 4805m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.461	0.104									

Cruise: BARTLT 1301-82 Sample: 44-11 Date: 10/30/81
Position: 14-19N;68-22W Depth: 4805m
Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.9	1.000	0.000													
0.0	1505.9	0.985	0.323													
1.0	1495.6	0.978	0.233													
2.0	1493.7	0.977	0.247													
3.0	1492.3	0.976	0.275													
4.0	1492.3	0.976	0.275													
5.0	1491.9	0.976	0.290													
6.0	1489.4	0.974	0.290													
7.0	1490.8	0.975	0.306													
8.0	1489.7	0.974	0.261													
9.0	1489.4	0.974	0.247													
10.0	1489.4	0.974	0.233													
11.0	1490.8	0.975	0.220													
12.0	1490.1	0.974	0.220													
13.0	1491.2	0.975	0.247													
14.0	1492.3	0.976	0.323													
15.0	1492.6	0.976	0.398													
16.0	1490.8	0.975	0.358													
17.0	1490.8	0.975	0.340													
18.0	1490.8	0.975	0.378													
19.0	1490.8	0.975	0.378													
20.0	1491.9	0.976	0.398													
21.0	1493.4	0.976	0.420													
22.0	1493.4	0.976	0.443													
23.0	1494.5	0.977	0.477													
24.0	1496.3	0.978	0.488													
25.0	1497.0	0.979	0.499													
26.0	1495.9	0.978	0.522													
27.0	1495.9	0.978	0.617													
28.0	1493.0	0.976	0.666													
29.0	1497.8	0.979	0.704													
30.0	1497.8	0.979	0.704													
31.0	1496.3	0.978	0.724													

Cruise: BARTLT 1301-82 Sample: 44-12 Date: 10/30/81
Position: 14-19N;68-22W Depth: 4805m
Calculated for: 23.0 Deg-C 35.00 d/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.2	1.001	-0.028													
0.0	1521.7	0.995	0.232													
1.0	1496.7	0.979	0.205	82.7	40.10				26.37	8.75	64.87	7.61	4.25	-0.59	0.68	0.41
2.0	1493.7	0.977	0.218													
3.0	1493.7	0.977	0.247	80.5	42.00				27.87	9.29	62.84	7.59	4.35	-0.53	0.64	0.39
4.0	1493.0	0.976	0.247													
5.0	1492.3	0.976	0.247	78.9	40.39				28.09	8.39	63.52	7.59	4.26	-0.55	0.64	0.39
6.0	1491.2	0.975	0.247													
7.0	1491.2	0.975	0.232	78.1	39.32				25.60	10.70	63.69	7.59	4.19	-0.53	0.71	0.41
8.0	1490.8	0.975	0.218													
9.0	1490.8	0.975	0.218	77.4	38.56				24.46	9.86	65.69	7.77	4.26	-0.51	0.80	0.45
10.0	1490.8	0.975	0.218													
11.0	1490.8	0.975	0.192	76.0	34.45				17.40	11.27	71.33	8.43	3.87	-0.53	1.37	0.58
12.0	1490.8	0.975	0.167													
13.0	1491.6	0.975	0.262	75.1	36.65				19.55	10.91	69.55	8.10	4.01	-0.57	1.27	0.56
14.0	1491.9	0.976	0.312													
15.0	1492.6	0.976	0.349	74.7	41.62				23.01	11.19	65.80	7.86	4.26	-0.52	0.91	0.48
16.0	1492.6	0.976	0.349													
17.0	1493.4	0.976	0.349	74.4	40.94				24.85	11.07	64.08	7.80	4.28	-0.53	0.74	0.43
18.0	1493.7	0.977	0.312													
19.0	1493.7	0.977	0.349	74.0	41.09				20.96	11.50	67.54	7.81	3.91	-0.64	1.06	0.52
20.0	1494.8	0.977	0.370													
21.0	1494.8	0.977	0.391	74.1	42.57				23.70	11.85	64.44	7.69	4.09	-0.57	0.87	0.46
22.0	1495.2	0.978	0.419													
23.0	1496.3	0.978	0.449	73.6	44.73				26.73	11.64	61.64	7.44	4.04	-0.56	0.67	0.40
24.0	1497.0	0.979	0.482													
25.0	1498.9	0.980	0.518	73.2	44.35				24.84	13.31	61.85	7.50	3.95	-0.57	0.73	0.42
26.0	1496.7	0.979	0.518													
27.0	1498.5	0.980	0.544	72.7	46.51				25.47	14.55	59.98	7.46	3.93	-0.52	0.71	0.41
28.0	1499.6	0.981	0.604													
29.0	1499.6	0.981	0.588	72.8	48.89				26.52	15.04	58.44	7.36	3.84	-0.53	0.67	0.40
30.0	1499.6	0.981	0.675													
31.0	1498.5	0.980	0.675	72.6	49.63				28.81	15.60	55.59	7.22	3.95	-0.43	0.64	0.39
32.0																
33.0				72.3	51.71				27.94	16.05	55.94	7.21	3.87	-0.48	0.65	0.39
34.0																
35.0				72.5	44.75				19.57	16.69	63.74	7.82	3.55	-0.58	0.90	0.47

Cruise: BARTLT 1301-82 Sample: 44-13 Date: 10/30/81
Position: 14-19N;68-22W Depth: 4805m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1532.4	1.002	-0.014													
0.0	1526.3	0.998	0.170													
1.0	1498.9	0.980	0.276					4.80								
2.0	1495.2	0.978	0.292													
3.0	1493.7	0.977	0.309													
4.0	1493.7	0.977	0.292													
5.0	1492.6	0.976	0.292					16.60								
6.0	1491.6	0.975	0.276													
7.0	1492.3	0.976	0.261					19.60								
8.0	1490.5	0.975	0.276													
9.0	1490.8	0.975	0.247													
10.0	1490.1	0.974	0.219													
11.0	1490.1	0.974	0.219					42.80								
12.0	1491.2	0.975	0.182													
13.0	1491.6	0.975	0.170					50.50								
14.0	1491.6	0.975	0.247													
15.0	1493.4	0.976	0.309													
16.0	1493.7	0.977	0.364													
17.0	1494.8	0.977	0.364					49.30								
18.0	1493.7	0.977	0.309													
19.0	1494.5	0.977	0.326					50.50								
20.0	1496.3	0.978	0.364													
21.0	1496.7	0.979	0.364													
22.0	1496.7	0.979	0.406													
23.0	1498.1	0.980	0.433					50.00								
24.0	1498.1	0.980	0.453													
25.0	1498.9	0.980	0.463					42.20								
26.0	1499.3	0.980	0.508													
27.0																
28.0																
29.0								52.90								

Cruise: BARTLT 1301-82 Sample: 44-14 Date: 10/30/81
Position: 14-19N;68-22W Depth: 4805m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1532.0	1.002	0.000													
0.0	1517.5	0.992	0.261													
1.0	1495.2	0.978	0.247					4.20								
2.0	1493.4	0.976	0.261													
3.0	1493.4	0.976	0.276													
4.0	1492.6	0.976	0.261													
5.0	1492.6	0.976	0.261					7.70								
6.0	1492.6	0.976	0.261													
7.0	1492.6	0.976	0.261					11.30								
8.0	1492.3	0.976	0.247													
9.0	1491.9	0.976	0.233													
10.0	1491.6	0.975	0.219													
11.0	1491.9	0.976	0.219					23.20								
12.0	1491.9	0.976	0.206													
13.0	1493.0	0.976	0.292					47.60								
14.0	1494.8	0.977	0.344													
15.0	1494.8	0.977	0.364													
16.0	1494.8	0.977	0.364													
17.0	1494.5	0.977	0.364					46.40								
18.0	1495.2	0.978	0.344													
19.0	1495.2	0.978	0.344					54.70								
20.0	1496.7	0.979	0.453													
21.0	1498.1	0.980	0.443													
22.0	1498.1	0.980	0.443													
23.0	1498.9	0.980	0.474					51.70								
24.0	1498.9	0.980	0.485													
25.0	1499.3	0.980	0.474					52.30								
26.0	1501.5	0.982	0.587													
27.0	1502.6	0.982	0.635													
28.0																
29.0								47.60								
30.0																
31.0								53.50								

Cruise: BARTLT 1301-82 Sample: 47-1 Date: 11/01/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
32.0	1505.0	0.984	0.233													
33.0	1503.1	0.983	0.159													
34.0	1540.7	1.007	0.603													
35.0	1533.3	1.003	0.559													
36.0	1523.4	0.996	0.485													

Cruise: BARBADOS 1301-82 Sample: 47-2 Date: 11/01/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
32.0	1498.0	0.979	0.098					50.98								
33.0	1498.0	0.979	0.098													
34.0	1497.2	0.979	0.098					56.19								
35.0	1507.2	0.985	0.261													
36.0	1539.9	1.007	0.429													

Cruise: BARTLT 1301-82 Sample: 48-3 Date: 11/01/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1499.1	0.980	0.167													
2.0	1494.3	0.977	0.123													
3.0	1493.9	0.977	0.144													
4.0	1491.7	0.975	0.123													
5.0	1489.9	0.974	0.102													
6.0	1489.6	0.974	0.083													
7.0	1489.9	0.974	0.083													
8.0	1491.0	0.975	0.065													
9.0	1491.0	0.975	0.065													
10.0	1492.8	0.976	0.056													
11.0	1501.6	0.982	0.123													
12.0	1503.8	0.983	0.144													
13.0	1507.9	0.986	0.144													
14.0	1511.3	0.988	0.247													
15.0	1517.3	0.992	0.471													
16.0	1536.0	1.004	0.471													
17.0	1537.1	1.005	0.482													
18.0	1527.5	0.999	0.391													
19.0	1540.6	1.007	0.851													
20.0	1563.5	1.022	0.942													
21.0	1543.3	1.009	0.518													
22.0	1497.6	0.979	0.752													
23.0	1488.5	0.973	0.083													
24.0	1487.4	0.973	0.065													
25.0	1487.4	0.973	0.083													
26.0	1487.7	0.973	0.056													
27.0	1488.8	0.973	0.048													
28.0	1491.7	0.975	0.048													
29.0	1495.7	0.978	0.048													
30.0	1505.0	0.984	0.102													
31.0	1501.3	0.982	0.083													
32.0	1498.3	0.980	0.083													
33.0	1502.7	0.983	0.167													

Cruise: BARTLT 1301-82 Sample: 48-4 Date: 11/01/81
Position: 13-44N ;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1506.8	0.985	0.330					5.20								
2.0	1502.7	0.983	0.294													
3.0	1496.5	0.978	0.232					8.32								
4.0	1493.2	0.976	0.167													
5.0	1490.6	0.975	0.144					13.53								
6.0	1489.9	0.974	0.123													
7.0	1489.6	0.974	0.112					33.30								
8.0	1489.9	0.974	0.112													
9.0	1490.6	0.975	0.093					45.79								
10.0	1491.0	0.975	0.102													
11.0	1494.7	0.977	0.112					174.82								
12.0	1506.8	0.985	0.218													
13.0	1506.1	0.985	0.144													
14.0	1514.3	0.990	0.218													
15.0	1514.7	0.990	0.391													
16.0	1506.4	0.985	0.312													
17.0	1519.5	0.994	0.439													
18.0	1548.0	1.012	0.696													
19.0	1572.7	1.028	0.696													
20.0	1552.7	1.015	0.740													
21.0	1531.3	1.001	0.588													
22.0	1490.3	0.974	0.330													
23.0	1486.7	0.972	0.083													
24.0	1485.6	0.971	0.093													
25.0	1485.2	0.971	0.093													
26.0	1486.3	0.972	0.065													
27.0	1487.4	0.973	0.056													
28.0	1489.6	0.974	0.048													
29.0	1492.1	0.976	0.048													
30.0	1492.1	0.976	0.048													
31.0	1503.1	0.983	0.102													
32.0	1506.4	0.985	0.093													
33.0	1494.3	0.977	0.074													

Cruise: BARTLT 1301-82 Sample: 48-5 Date: 11/01/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
15.0	1525.2	0.997	0.391													
16.0	1520.7	0.994	0.391													
17.0	1520.3	0.994	0.391													
18.0	1521.1	0.995	0.370													
19.0	1529.4	1.000	0.439													
20.0	1541.8	1.008	0.604													
21.0	1553.9	1.016	0.573													
22.0	1544.9	1.010	0.531													
23.0	1541.8	1.008	0.588													
24.0	1554.7	1.017	1.066													
25.0	1499.8	0.981	1.066													
26.0	1493.2	0.976	0.278													
27.0	1486.3	0.972	0.074													
28.0	1485.9	0.972	0.065													
29.0	1485.9	0.972	0.065													
30.0	1486.7	0.972	0.048													
31.0	1488.1	0.973	0.031													
32.0	1493.2	0.976	0.048													
33.0	1503.1	0.983	0.123													

Cruise: BARTLT 1301-82 Sample: 48-6 Date: 11/01/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
15.0	1534.8	1.004	0.312													
16.0	1529.8	1.000	0.391					8.32								
17.0	1529.8	1.000	0.391													
18.0	1533.3	1.003	0.429					12.49								
19.0	1543.3	1.009	0.482													
20.0	1555.9	1.017	0.638					28.10								
21.0	1588.2	1.038	0.922													
22.0	1601.1	1.047	0.922					31.22								
23.0	1571.5	1.028	0.851													
24.0	1492.8	0.976	0.370					14.57								
25.0	1485.9	0.972	0.065													
26.0	1485.9	0.972	0.056					19.77								
27.0	1487.4	0.973	0.083													
28.0	1486.3	0.972	0.048					31.22								
29.0	1487.7	0.973	0.048													
30.0	1488.1	0.973	0.048					136.32								
31.0	1493.2	0.976	0.048													
32.0	1504.2	0.984	0.144					45.79								

Cruise: BARTLT 1301-82 Sample: 48-7 Date: 11/01/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
15.0	1533.7	1.003	0.531													
16.0	1528.7	1.000	0.439					9.37								
17.0	1526.0	0.998	0.391													
18.0	1522.2	0.995	0.349					6.24								
19.0	1522.2	0.995	0.349													
20.0	1527.9	0.999	0.471					10.41								
21.0	1555.9	1.017	0.740													
22.0	1545.7	1.011	0.647					15.61								
23.0	1544.9	1.010	0.604													
24.0	1539.4	1.007	0.885					14.57								
25.0	1488.8	0.973	0.102													
26.0	1487.0	0.972	0.056					14.57								
27.0	1486.7	0.972	0.065													
28.0	1486.7	0.972	0.056					19.77								
29.0	1487.0	0.972	0.048													
30.0	1487.7	0.973	0.048					78.88								
31.0	1491.0	0.975	0.048													
32.0	1509.4	0.987	0.218					126.95								
33.0	1505.3	0.984	0.102													
34.0	1496.8	0.979	0.074					32.25								
35.0	1495.0	0.978	0.102													
36.0	1493.6	0.977	0.133					36.42								

Cruise: BARTLT 1301-82 Sample: 48-8 Date: 11/01/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
35.0	1513.6	0.990	0.717													
36.0	1506.1	0.985	0.638													
37.0	1531.4	1.001	0.740													

Cruise: BARTLT 1301-82 Sample: 48-9 Date: 11/01/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
33.0								110.30								
34.0	1496.5	0.978	1.458													
35.0	1499.1	0.980	0.294					15.61								
36.0	1493.6	0.977	0.093													
37.0	1500.5	0.981	0.414					34.34								
38.0																
39.0								54.11								

Cruise: BARTLT 1301-82 Sample: 48-8 Date: 11/01/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
35.0	1513.6	0.990	0.717													
36.0	1506.1	0.985	0.638													
37.0	1531.4	1.001	0.740													

Cruise: BARTLT 1301-82 Sample: 48-9 Date: 11/01/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
33.0								110.30								
34.0	1496.5	0.978	1.458													
35.0	1499.1	0.980	0.294					15.61								
36.0	1493.6	0.977	0.093													
37.0	1500.5	0.981	0.414					34.34								
38.0																
39.0								54.11								

Cruise: BARTLT 1301-82 Sample: 51-3 Date: 11/02/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.6	0.999	0.000													
0.0	1523.2	0.996	0.065													
1.0	1498.5	0.980	0.112	85.5	7.38				0.87	17.61	81.51	10.11	2.24	-0.12	1.04	0.51
2.0	1493.0	0.976	0.083													
3.0	1490.8	0.975	0.083	82.8	7.38				1.01	18.30	80.69	9.98	2.17	-0.15	1.10	0.52
4.0	1491.6	0.975	0.093													
5.0	1489.4	0.974	0.093	80.9	6.29				0.45	18.93	80.63	10.10	2.27	-0.09	0.95	0.49
6.0	1488.6	0.973	0.083													
7.0	1486.8	0.972	0.065	78.4	4.40				0.12	20.12	79.76	10.10	2.28	-0.07	0.88	0.47
8.0	1486.8	0.972	0.056													
9.0	1486.5	0.972	0.056	74.5	3.17				0.09	23.40	76.50	9.93	2.33	-0.07	0.87	0.47
10.0	1487.9	0.973	0.065													
11.0	1489.0	0.974	0.083	71.8	4.04				0.10	32.34	67.56	9.42	2.50	0.03	0.88	0.47
12.0	1491.2	0.975	0.093													
13.0	1496.7	0.979	0.123	70.7	2.77				0.08	32.30	67.62	9.29	2.36	-0.06	0.92	0.48
13.5				75.3	3.85				0.62	44.38	55.00	8.66	2.87	0.10	0.78	0.44
14.0	1499.3	0.980	0.167													
14.5				56.4	4.43				1.46	82.83	15.70	5.86	2.08	0.59	2.46	0.71
15.0	1505.9	0.985	0.439													
16.0	1528.6	0.999	0.820													

Cruise: BARTLT 1301-82 Sample: 51-4 Date: 11/02/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.5	0.999	0.000													
0.0	1514.9	0.991	0.131													
1.0	1497.8	0.979	0.112					2.08								
2.0	1495.6	0.978	0.112													
3.0	1493.7	0.977	0.112					4.16								
4.0	1492.3	0.976	0.112													
5.0	1490.5	0.975	0.112					9.37								
6.0	1489.0	0.974	0.112													
7.0	1487.6	0.973	0.093					15.61								
8.0	1486.5	0.972	0.085													
9.0	1486.8	0.972	0.085					13.53								
10.0	1487.2	0.972	0.093													
11.0	1488.3	0.973	0.085					12.49								
12.0	1488.6	0.973	0.093													
13.0	1489.7	0.974	0.102													
14.0	1492.3	0.976	0.102													
15.0	1496.3	0.978	0.121					65.56								
16.0	1497.8	0.979	0.173													
17.0	1498.5	0.980	0.290													
18.0	1513.7	0.990	0.724													
19.0	1500.4	0.981	1.160													

Cruise: BARTLT 1301-82 Sample: 51-5 Date: 11/02/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
14.0	1519.0	0.993	0.262													
15.0	1517.5	0.992	0.247	75.4	4.88				3.66	61.06	35.28	7.39	2.73	0.47	0.90	0.47
16.0	1517.9	0.992	0.247													
17.0	1518.7	0.993	0.278	79.0	5.41				6.11	54.86	39.03	7.51	2.91	0.35	0.80	0.44
18.0	1535.5	1.004	0.192													
19.0	1549.5	1.013	0.192	64.6	5.52				2.05	75.33	22.62	6.78	2.41	0.59	1.28	0.56
20.0	1539.4	1.007	0.205													
21.0	1525.9	0.998	0.370	66.9	3.96				4.38	65.08	30.55	7.01	2.69	0.56	0.86	0.46
22.0	1525.1	0.997	0.349													
23.0	1524.7	0.997	0.312	69.4	6.18				3.17	68.70	28.13	7.00	2.66	0.59	0.96	0.49
24.0	1526.3	0.998	0.349													
25.0	1594.5	1.043	0.391	66.7	5.09				2.59	73.94	23.47	6.74	2.57	0.60	1.18	0.54
26.0	1551.1	1.014	0.604													
27.0	1569.9	1.026	0.740	59.5	5.17				2.30	80.50	17.19	6.10	2.04	0.56	1.71	0.63
28.0	1516.8	0.992	0.429													
29.0	1515.3	0.991	0.604	65.2	6.17				2.16	75.05	22.79	6.64	2.59	0.64	1.21	0.55
30.0	1487.9	0.973	0.133													
31.0	1485.4	0.971	0.065	80.3	4.61				0.46	20.35	79.19	9.88	2.18	-0.17	1.12	0.53
32.0	1483.9	0.970	0.074													
33.0	1484.3	0.971	0.074	79.5	5.26				0.11	20.89	79.00	10.06	2.32	-0.10	0.92	0.48
34.0	1484.7	0.971	0.056													
35.0	1486.1	0.972	0.048	79.2	6.15				0.58	20.36	79.06	9.96	2.27	-0.14	1.03	0.51
36.0	1487.6	0.973	0.031													
37.0	1492.6	0.976	0.048	73.3	3.33				0.00	21.36	78.64	10.06	2.33	-0.08	0.89	0.47
38.0	1501.8	0.982	0.102													
39.0	1500.7	0.981	0.167	68.3	1.67				0.00	25.41	74.59	9.70	2.28	-0.14	1.00	0.50
40.0																
41.0				75.9	2.82				0.11	34.02	65.87	9.36	2.67	0.00	0.84	0.46

Cruise: BARTLT 1301-82 Sample: 51-7 Date: 11/02/81
Position: 13-44N;67-48W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
16.0	1494.8	0.977	0.206													
17.0	1507.8	0.986	0.508													
18.0	1516.4	0.991	0.474					13.53								
19.0	1516.4	0.991	0.424													
20.0	1519.4	0.993	0.453					16.65								
21.0	1525.5	0.997	0.463													
22.0	1530.4	1.001	0.485					10.41								
23.0	1533.1	1.002	0.533													
24.0	1521.3	0.995	0.364					10.41								
25.0	1519.4	0.993	0.276													
26.0	1532.4	1.002	0.587					17.96								
27.0	1554.6	1.016	0.652													
28.0	1557.0	1.018	0.587					14.57								
29.0	1586.1	1.037	0.792													
30.0	1488.6	0.973	0.117					10.41								
31.0	1486.5	0.972	0.079													
32.0	1485.7	0.971	0.079					12.49								
33.0	1485.7	0.971	0.071													
34.0	1486.5	0.972	0.062					27.06								
35.0	1486.8	0.972	0.046													
36.0	1495.9	0.978	0.079					105.10								
37.0	1510.4	0.988	0.219													
38.0	1501.1	0.981	0.117					55.16								
39.0	1491.9	0.976	0.098					20.81								

Cruise: BARTLT 1301-82 Sample: 53-16 Date: 11/03/81
Position: 13-47N;67-47W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0						0.849	0.154									
2.0																
3.0						0.690	0.145									
4.0																
5.0						0.688	0.144									
6.0																

Cruise: BARTLT 1301-82 Sample: 53-18 Date: 11/03/81
Position: 13-47N;67-47W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.0	1.000	0.000													
0.0	1521.5	0.995	0.102													
1.0	1499.4	0.980	0.102					2.08								
2.0	1492.8	0.976	0.093													
3.0	1489.9	0.974	0.093					6.24								
4.0	1488.6	0.973	0.093													
5.0	1487.0	0.972	0.083					10.41								
6.0	1486.6	0.972	0.083													
7.0	1485.9	0.972	0.083					16.65								
8.0	1485.5	0.971	0.083													
9.0	1486.6	0.972	0.074					21.85								
10.0	1486.6	0.972	0.065													
11.0	1488.1	0.973	0.065					48.91								
12.0	1489.5	0.974	0.065													
13.0	1491.0	0.975	0.074					88.45								
14.0	1494.3	0.977	0.083					84.29								
15.0	1493.5	0.977	0.093													
16.0	1492.8	0.976	0.123													
17.0	1492.4	0.976	0.167													
18.0	1504.2	0.984	0.370													
19.0	1514.3	0.990	0.638													

Cruise: BARTLT 1301-82 Sample: 53-19 Date: 11/03/81
Position: 13-47N;67-47W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm.)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.2	1.001	-0.015													
0.0	1525.6	0.998	0.083													
1.0	1500.1	0.981	0.102	85.9	6.46				0.94	16.29	82.76	10.13	2.13	-0.11	1.11	0.53
2.0	1495.0	0.978	0.083													
3.0	1493.2	0.976	0.093	83.3	6.57				0.23	17.41	82.36	10.23	2.25	-0.08	0.93	0.48
4.0	1492.1	0.976	0.083													
5.0	1489.9	0.974	0.083	81.1	5.43				0.24	18.35	81.41	10.10	2.20	-0.10	1.00	0.50
6.0	1489.2	0.974	0.074													
7.0	1488.1	0.973	0.065	79.5	3.85				0.28	19.40	80.32	10.12	2.28	-0.08	0.91	0.48
8.0	1487.3	0.973	0.056													
9.0	1488.1	0.973	0.048	74.8	3.07				0.10	20.32	79.58	10.12	2.31	-0.05	0.86	0.46
10.0	1489.9	0.974	0.048													
11.0	1490.3	0.974	0.048	71.3	2.42				0.07	25.20	74.73	9.82	2.34	-0.01	0.88	0.47
12.0	1492.4	0.976	0.048													
13.0	1501.2	0.982	0.083	70.8	2.05				0.31	25.05	74.64	9.72	2.26	-0.19	0.88	0.47
14.0	1501.2	0.982	0.102													
15.0	1497.2	0.979	0.167	75.2	4.17				0.60	45.59	53.82	8.58	2.91	0.10	0.77	0.44
16.0	1497.2	0.979	0.262													
17.0	1487.7	0.973	0.102													
18.0	1486.3	0.972	0.065													
19.0	1486.6	0.972	0.048													
20.0	1487.0	0.972	0.031													
21.0	1491.3	0.975	0.048													
22.0	1499.0	0.980	0.083													
23.0	1496.8	0.979	0.065													
24.0	1492.1	0.976	0.102													

Cruise: BARTLT 1301-82 Sample: 53-20 Date: 11/03/81
Position: 13-47N;67-47W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
17.0	1497.9	0.979	0.179													
18.0	1511.7	0.988	0.400													
19.0	1528.0	0.999	0.518					12.49								
20.0	1537.3	1.005	0.573													
21.0	1527.6	0.999	0.471					13.53								
22.0	1526.5	0.998	0.439													
23.0	1526.5	0.998	0.439					9.37								
24.0	1552.6	1.015	0.851													
25.0	1554.2	1.016	0.820					7.28								
26.0	1534.6	1.003	0.765													
27.0	1533.4	1.003	0.765					12.49								
28.0	1550.2	1.014	0.765													
29.0	1549.4	1.013	0.638					10.41								
30.0	1489.5	0.974	0.391													
31.0	1484.8	0.971	0.102					11.45								
32.0	1484.4	0.971	0.093													
33.0	1484.4	0.971	0.102					15.61								
34.0	1484.1	0.970	0.102													
35.0	1480.5	0.968	0.093					18.73								
36.0	1485.5	0.971	0.083													
37.0	1481.2	0.968	0.083					47.87								
38.0	1487.7	0.973	0.133													
39.0	1491.0	0.975	0.391					110.30								

Cruise: BARTLT 1301-82 Sample: 53-21 Date: 11/03/81
Position: 13-47N;67-47W Depth: 5049m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Deptn (cm)	vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
14.0	1526.4	0.998	0.638													
15.0	1524.5	0.997	0.493	64.0	2.92				0.71	69.23	30.06	7.41	2.44	0.52	0.94	0.48
16.0	1515.4	0.991	0.419													
17.0	1510.2	0.987	0.312	68.0	3.55				1.28	63.62	35.10	7.55	2.54	0.50	0.82	0.45
18.0	1512.8	0.989	0.312													
19.0	1514.7	0.990	0.330	72.9	4.33				3.03	58.54	38.42	7.61	2.76	0.41	0.79	0.44
20.0	1515.8	0.991	0.312													
21.0	1517.7	0.992	0.312	73.1	4.50				4.24	64.79	30.97	7.16	2.61	0.56	0.89	0.47
22.0	1524.9	0.997	0.429													
23.0	1554.0	1.016	0.791	58.5	4.30				1.19	82.41	16.40	6.24	1.85	0.55	1.86	0.65
24.0	1550.8	1.014	0.805													
25.0	1541.4	1.008	0.740	62.8	5.06				3.49	75.59	20.93	6.59	2.41	0.59	1.48	0.60
26.0	1533.3	1.003	0.706													
27.0	1540.7	1.007	0.729	61.0	5.04				2.37	74.72	22.91	6.66	2.51	0.60	1.25	0.55
28.0	1494.3	0.977	0.382													
29.0	1487.7	0.973	0.074	79.8	4.44				0.43	22.14	77.43	9.92	2.31	-0.12	0.94	0.49
30.0	1487.0	0.972	0.065													
31.0	1487.0	0.972	0.065	78.7	5.83				0.26	20.80	78.95	10.05	2.31	-0.11	0.88	0.47
32.0	1487.3	0.973	0.056													
33.0	1489.5	0.974	0.093	76.6	3.72				0.10	22.72	77.18	10.00	2.37	-0.08	0.87	0.46
34.0	1493.2	0.976	0.218													
35.0	1497.2	0.979	0.330	74.0	2.26				0.09	21.06	78.85	9.96	2.26	-0.12	0.99	0.50
36.0																
37.0				73.1	2.05				0.00	24.45	75.55	9.84	2.30	-0.11	0.95	0.49

Cruise: BARTLT 1301-82 Sample: 54-1 Date: 11/03/81
Position: 13-43N;67-44W Depth: 5052m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
20.0	1507.0	0.985	1.012													
21.0	1502.9	0.983	0.192													
22.0	1514.1	0.990	0.278					8.32								
23.0	1540.5	1.007	0.558													
24.0	1558.2	1.019	0.518													
25.0	1553.4	1.016	0.531					10.41								
26.0	1559.0	1.019	0.604													
27.0	1603.2	1.048	0.820					16.65								
28.0	1562.2	1.021	0.604													
29.0	1566.6	1.024	0.656					28.10								
30.0	1607.0	1.051	0.765													
31.0	1584.9	1.036	0.717					29.14								
32.0	1492.6	0.976	0.409													
33.0	1485.0	0.971	0.065					15.61								
34.0	1485.0	0.971	0.048													
35.0	1484.7	0.971	0.048					15.61								
36.0	1484.7	0.971	0.048													
37.0	1484.7	0.971	0.048					19.77								
38.0	1486.8	0.972	0.031													
39.0	1488.6	0.973	0.031					18.73								
40.0	1491.2	0.975	0.031													
41.0	1499.6	0.981	0.102					154.00								
42.0	1501.1	0.981	0.123													
43.0								56.19								
44.0																
45.0								26.02								

Cruise: BARTLT 1301-82 Sample: 54-2 Date: 11/03/81
Position: 13-43N;67-44W Depth: 5052m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
20.0	1505.9	0.985	0.219													
21.0	1533.9	1.003	0.732													
22.0	1544.4	1.010	0.508	63.7	3.62				1.06	76.08	22.86	6.84	2.30	0.62	1.30	0.57
23.0	1533.6	1.003	0.443													
24.0	1528.2	0.999	0.406	70.9	4.34				2.38	64.29	33.33	7.27	2.68	0.55	0.87	0.46
25.0	1524.4	0.997	0.344													
26.0	1525.5	0.997	0.364	70.4	5.67				2.27	67.89	29.83	7.09	2.57	0.60	0.92	0.48
27.0	1538.6	1.006	0.834													
28.0	1604.1	1.049	0.690	55.6	4.46				1.80	87.09	11.11	5.52	1.57	0.41	2.24	0.69
29.0	1594.5	1.043	0.587													
30.0	1584.1	1.036	0.732	52.9	4.17				2.47	86.56	10.97	5.24	1.46	0.41	2.07	0.67
31.0	1589.9	1.040	0.690													
32.0	1487.6	0.973	0.117	79.4	6.08				0.12	20.39	79.49	10.09	2.35	-0.09	0.90	0.47
33.0	1485.4	0.971	0.062	79.0	5.99				0.16	20.20	79.64	10.05	2.28	-0.09	0.93	0.48
34.0	1485.4	0.971	0.079													
35.0	1486.5	0.972	0.062	77.1	4.87				0.11	20.21	79.68	10.13	2.35	-0.05	0.87	0.47
36.0	1485.7	0.971	0.062													
37.0	1485.7	0.971	0.046	73.4	3.87				0.00	20.06	79.94	10.10	2.30	-0.06	0.89	0.47
38.0	1486.5	0.972	0.046													
39.0	1493.7	0.977	0.062	69.7	2.92				0.00	26.84	73.16	9.68	2.35	-0.06	0.95	0.49
40.0	1500.0	0.981	0.098													
41.0	1500.7	0.981	0.098	69.0	3.31				0.08	35.00	64.92	9.36	2.65	0.06	0.83	0.45

Cruise: BARTLT 1301-82 Sample: 54-3 Date: 11/03/81
Position: 13-43N;67-44W Depth: 5052m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
16.0																
17.0						1.060	0.123									
18.0																
19.0						1.120	0.122									
20.0																
21.0						1.540	0.130									
22.0																
23.0						0.707	0.064									
24.0																
25.0						1.200	0.106									
26.0																
27.0						0.408	0.053									
28.0																
29.0						0.577	0.114									
30.0																
31.0						0.578	0.116									
32.0																
33.0						0.561	0.110									
34.0																
35.0						0.669	0.101									
36.0						0.894	0.118									

Cruise: BARTLT 1301-82 Sample: 54-4 Date: 11/03/81
Position: 13-43N;67-44W Depth: 5052m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.5	1.001	-0.015													
0.0	1525.5	0.997	0.065													
1.0	1504.4	0.984	0.144	85.7	5.23				0.77	18.65	80.57	9.97	2.16	-0.13	1.06	0.51
2.0	1495.6	0.978	0.144													
3.0	1492.6	0.976	0.123	81.8	4.99				0.53	19.97	79.49	9.96	2.19	-0.12	1.03	0.51
4.0	1490.8	0.975	0.102													
5.0	1489.7	0.974	0.093	81.1	5.68				0.26	19.69	80.05	10.06	2.24	-0.07	0.93	0.48
6.0	1487.9	0.973	0.083													
7.0	1487.6	0.973	0.065	78.2	3.39				0.18	21.84	77.99	9.96	2.27	-0.06	0.92	0.48
8.0	1488.6	0.973	0.048													
9.0	1489.7	0.974	0.048	74.4	3.41				0.00	22.37	77.63	10.00	2.31	-0.01	0.85	0.46
10.0	1489.4	0.974	0.048													
11.0	1488.3	0.973	0.048	73.0	3.40				0.26	22.05	77.69	9.97	2.33	-0.03	0.89	0.47
12.0	1488.3	0.973	0.031													
13.0	1487.6	0.973	0.048	74.5	3.44				0.40	22.21	77.39	9.95	2.36	-0.05	0.89	0.47
14.0	1486.1	0.972	0.048													
15.0	1486.1	0.972	0.048	74.2	2.94				0.07	24.78	75.15	9.88	2.41	-0.07	0.88	0.47
16.0	1488.6	0.973	0.065													
17.0	1495.6	0.978	0.123	68.3	2.50				0.00	32.31	67.69	9.14	2.24	-0.12	0.95	0.49
18.0	1503.3	0.983	0.144													
19.0	1507.8	0.986	0.167	68.7	2.41				0.08	34.84	65.08	9.27	2.57	-0.03	0.88	0.47
20.0	1504.1	0.983	0.144													
21.0	1502.6	0.982	0.156	64.8	3.01				0.64	59.41	39.95	7.70	2.63	0.42	0.78	0.44
22.0	1511.9	0.989	0.370													
23.0	1535.5	1.004	0.696													
24.0	1547.6	1.012	0.675													
25.0	1560.6	1.020	0.675													
26.0	1561.4	1.021	0.409													
27.0	1585.0	1.036	0.056													
28.0	1579.6	1.033	0.102													

Cruise: BARTLT 1301-82 Sample: 54-5 Date: 11/3/81
Position: 13-43N;67-44W Depth: 5052m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.1	1.000	0.000													
0.0	1525.9	0.998	0.031													
1.0	1501.8	0.982	0.123					2.08								
2.0	1493.0	0.976	0.102													
3.0	1488.6	0.973	0.083					9.37								
4.0	1487.6	0.973	0.083													
5.0	1488.6	0.973	0.083					12.49								
6.0	1486.5	0.972	0.074													
7.0	1486.5	0.972	0.065					16.65								
8.0	1487.9	0.973	0.048													
9.0	1488.6	0.973	0.048					40.58								
10.0	1488.6	0.973	0.031													
11.0	1488.6	0.973	0.048					53.07								
12.0	1488.3	0.973	0.048													
13.0	1486.5	0.972	0.048					33.30								
14.0	1485.7	0.971	0.065													
15.0	1486.5	0.972	0.048					49.95								
16.0	1487.6	0.973	0.048													
17.0	1489.4	0.974	0.048					55.16								
18.0	1494.1	0.977	0.123													
19.0	1517.5	0.992	0.439					165.46								
20.0	1529.3	1.000	0.414													
21.0	1520.6	0.994	0.391					33.30								
22.0	1508.9	0.987	0.312													
23.0	1518.7	0.993	0.506													
24.0	1538.6	1.006	0.573													
25.0	1542.1	1.008	0.573													
26.0	1566.2	1.024	1.066													
27.0	1579.6	1.033	0.123													
28.0	1581.3	1.034	0.192													

Cruise: BARTLT 1301-82 Sample: 54-6 Date: 11/3/81
Position: 13-43N;67-44W Depth: 5052m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
0.0																
1.0						0.778	0.128									
2.0																
3.0						0.635	0.124									
4.0																
5.0						0.614	0.119									
6.0																
7.0						0.591	0.116									
8.0																
9.0						0.588	0.116									
10.0																
11.0						0.630	0.118									
12.0																
13.0						0.669	0.130									
14.0																
15.0						0.605	0.120									
15.5						0.602	0.100									

Cruise: BARTLT 1301-82 Sample: 57-2 Date: 11/4/81
Position: 13-42N;67-47W Depth: 5046m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.797	0.166									

Cruise: BARTLT 1301-82 Sample: 67-1 Date: 11/18/81
Position: 13-35N;65-52W Depth: 4749m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1536.1	1.004	0.000													
0.0	1534.2	1.003	0.031													
1.0	1522.7	0.996	0.112	87.0	11.08				4.57	12.07	83.36	10.33	2.57	-0.20	1.26	0.56
2.0	1505.5	0.984	0.102													
3.0	1500.7	0.981	0.093	85.2	10.64				0.72	15.29	83.99	10.34	2.26	-0.12	1.02	0.51
4.0	1499.2	0.980	0.083													
5.0	1501.4	0.982	0.083	84.8	10.50				0.75	16.60	82.65	10.24	2.31	-0.12	1.03	0.51
6.0	1500.7	0.981	0.083													
7.0	1499.2	0.980	0.083	82.7	10.94				0.76	15.53	83.71	10.22	2.20	-0.14	1.13	0.53
8.0	1498.1	0.980	0.083													
9.0	1497.0	0.979	0.074	79.7	9.59				0.39	14.67	84.94	10.25	2.12	-0.11	1.14	0.53
10.0	1495.9	0.978	0.065													
11.0	1494.5	0.977	0.065	78.9	10.06				0.22	13.39	86.38	10.41	2.13	-0.07	1.05	0.51
12.0	1494.5	0.977	0.065													
13.0	1495.9	0.978	0.123	78.1	8.33				0.32	13.99	85.70	10.27	2.06	-0.09	1.07	0.52
14.0	1495.2	0.978	0.102													
15.0	1493.7	0.977	0.065	78.0	7.37				0.12	12.62	87.26	10.39	2.06	-0.07	1.07	0.52
16.0	1493.7	0.977	0.048													
17.0	1493.7	0.977	0.048	78.2	8.13				0.19	13.05	86.76	10.40	2.08	-0.07	1.05	0.51
18.0	1493.7	0.977	0.065													
19.0	1498.1	0.980	0.093	78.1	8.69				0.12	12.85	87.03	10.30	1.98	-0.08	1.17	0.54
20.0	1495.2	0.978	0.074													
21.0	1495.2	0.978	0.031	76.4	10.36				0.09	12.88	87.03	10.11	1.84	-0.13	1.36	0.58
22.0	1495.2	0.978	0.031													
23.0	1495.2	0.978	0.031	76.9	11.83				0.22	13.01	86.77	10.24	2.00	-0.12	1.25	0.56
24.0	1495.6	0.978	0.031													
25.0	1495.6	0.978	0.048	77.5	12.74				0.88	13.15	85.97	10.27	2.09	-0.13	1.16	0.54
26.0	1494.5	0.977	0.048													
27.0	1494.5	0.977	0.048	77.5	15.39				1.03	14.04	84.93	10.14	2.06	-0.17	1.28	0.56
28.0	1494.5	0.977	0.048													
29.0	1494.5	0.977	0.065	76.9	15.10				0.33	12.71	86.96	10.25	1.98	-0.13	1.26	0.56
30.0	1495.9	0.978	0.102													
31.0	1496.7	0.979	0.102	76.7	16.37				0.63	12.75	86.62	10.27	1.99	-0.12	1.31	0.57
32.0	1494.1	0.977	0.312													
33.0	1495.9	0.978	0.278	76.6	16.57				0.38	10.73	88.89	10.39	1.92	-0.09	1.22	0.55
34.0																
35.0				76.9	18.19				0.91	12.70	86.39	10.21	2.00	-0.16	1.34	0.57
36.0																
37.0				76.3	18.43				0.32	12.27	87.41	10.14	1.86	-0.17	1.53	0.61

Cruise: BARTLT 1301-82 Sample: 67-4 Date: 11/18/81
Position: 13-35N;65-52W Depth: 4749m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
19.0	1495.6	0.978	0.102					29.73								
20.0	1493.7	0.977	0.048													
21.0	1493.7	0.977	0.031													
22.0	1495.9	0.978	0.048													
23.0	1497.0	0.979	0.065					51.73								
24.0	1498.1	0.980	0.065													
25.0	1497.0	0.979	0.065					48.17								
26.0	1495.9	0.978	0.065													
27.0	1496.3	0.978	0.065													
28.0	1495.6	0.978	0.065													
29.0	1495.6	0.978	0.065					52.92								
30.0	1497.4	0.979	0.065													

Cruise: BARTLT 1301-82 Sample: 67-5 Date: 11/18/81
Position: 13-35N;65-52W Depth: 4749m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
wATER	1532.8	1.002	0.000													
0.0	1512.4	0.989	0.102													
1.0	1506.0	0.985	0.102					2.97								
2.0	1502.7	0.983	0.083													
3.0	1500.5	0.981	0.083													
4.0	1498.7	0.980	0.093													
5.0	1498.7	0.980	0.083					11.30								
6.0	1497.2	0.979	0.065													
7.0	1495.7	0.978	0.048					37.46								
8.0	1493.9	0.977	0.048													
9.0	1493.6	0.977	0.048													
10.0	1493.2	0.976	0.048													
11.0	1495.0	0.978	0.065					46.38								
12.0	1493.6	0.977	0.031													
13.0	1493.2	0.976	0.031					59.47								
14.0	1493.2	0.976	0.048													
15.0	1493.6	0.977	0.048													
16.0	1493.6	0.977	0.065													
17.0	1493.2	0.976	0.065					75.52								
18.0	1493.9	0.977	0.031													
19.0	1494.5	0.977	0.031					92.77								
20.0	1494.5	0.977	0.031													
21.0	1495.2	0.978	0.048													
22.0	1493.4	0.976	0.048													
23.0	1494.5	0.977	0.065					44.00								
24.0	1494.5	0.977	0.065													
25.0	1495.2	0.978	0.048					48.17								
26.0	1495.6	0.978	0.065													
27.0	1495.6	0.978	0.065													
28.0	1495.6	0.978	0.065													
29.0	1495.6	0.978	0.065					42.81								
30.0																
31.0								48.17								

Cruise: BARTLT 1301-82 Sample: 67-6 Date: 11/18/81
Position: 13-35N;65-52W Depth: 4749m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
19.0	1502.9	0.983	0.558					55.30								
20.0	1495.2	0.978	0.065													
21.0	1495.2	0.978	0.065													
22.0	1495.2	0.978	0.065													
23.0	1496.3	0.978	0.065					101.09								
24.0	1497.4	0.979	0.065													
25.0	1496.3	0.978	0.065					81.47								
26.0	1496.3	0.978	0.065													
27.0	1494.8	0.977	0.048													
28.0																
29.0								122.50								
30.0																
31.0								65.41								

Cruise: BARTLT 1301-82 Sample: 67-8 Date: 11/18/81
Position: 13-35N;65-52W Depth: 4749m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.6	1.000	0.000													
0.0	1521.3	0.995	0.065													
1.0	1509.6	0.987	0.112					3.57								
2.0	1498.1	0.980	0.083													
3.0	1494.5	0.977	0.074													
4.0	1493.0	0.976	0.074													
5.0	1492.3	0.976	0.065					13.08								
6.0	1491.9	0.976	0.065													
7.0	1489.4	0.974	0.065					19.62								
8.0	1489.7	0.974	0.074													
9.0	1490.5	0.975	0.065													
10.0	1488.3	0.973	0.048													
11.0	1487.9	0.973	0.065					38.65								
12.0	1487.9	0.973	0.065													
13.0	1487.9	0.973	0.048					42.81								
14.0	1487.2	0.972	0.048													
15.0	1487.2	0.972	0.048													
16.0	1487.9	0.973	0.065													
17.0	1489.4	0.974	0.065					78.49								
18.0	1489.0	0.974	0.048													
19.0	1487.6	0.973	0.031					57.09								
20.0	1488.6	0.973	0.031													
21.0	1487.9	0.973	0.031													
22.0	1488.3	0.973	0.031													
23.0	1488.3	0.973	0.031					51.14								
24.0	1484.3	0.971	0.031													
25.0	1487.6	0.973	0.031					41.03								
26.0	1487.6	0.973	0.048													
27.0	1487.2	0.972	0.048													
28.0	1488.3	0.973	0.065													
29.0	1488.6	0.973	0.083					44.00								
30.0																
31.0								66.60								

Cruise: BARTLT 1301-82 Sample: 67-9 Date: 11/18/81
Position: 13-35N;65-52W Depth: 4749m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.809	0.177									

Cruise: BARTLT 1301-82 Sample: 68-1 Date: 11/18/81
Position: 13-34N;65-45W Depth: 4447m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.6	0.999	0.015													
0.0	1522.5	0.995	0.117													
1.0	1496.3	0.978	0.098					3.57								
2.0	1493.0	0.976	0.098													
3.0	1492.3	0.976	0.088													
4.0	1491.2	0.975	0.088													
5.0	1490.5	0.975	0.088					17.24								
6.0	1488.3	0.973	0.079													
7.0	1487.6	0.973	0.079					36.27								
8.0	1487.2	0.972	0.079													
9.0	1487.2	0.972	0.079													
10.0	1486.8	0.972	0.079													
11.0	1486.8	0.972	0.062					55.30								
12.0	1487.6	0.973	0.062													
13.0	1488.6	0.973	0.079					104.06								
14.0	1489.4	0.974	0.079													
15.0	1491.2	0.975	0.079													
16.0	1490.1	0.974	0.079													
17.0	1489.7	0.974	0.079					80.87								
18.0	1489.0	0.974	0.079													
19.0	1488.3	0.973	0.062					64.22								
20.0	1488.3	0.973	0.079													
21.0	1489.0	0.974	0.079													
22.0	1489.7	0.974	0.062													
23.0	1488.3	0.973	0.062					97.52								
24.0	1488.3	0.973	0.079													
25.0	1491.9	0.976	0.079					115.36								
26.0	1491.9	0.976	0.079													
27.0	1490.5	0.975	0.079													
28.0	1489.7	0.974	0.098													
29.0								82.66								

Cruise: BARTLT 1301-82 Sample: 68-3 Date: 11/18/81
Position: 13-34N;65-45W Depth: 4447m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1501.8	0.982	0.093	86.9	17.63				7.47	10.32	82.21	10.11	2.80	-0.32	1.89	0.65
2.0	1495.6	0.978	0.074													
3.0	1493.7	0.977	0.074	83.9	16.53				4.76	9.94	85.30	10.20	2.28	-0.27	1.90	0.65
4.0	1493.0	0.976	0.083													
5.0	1492.3	0.976	0.074	82.5	15.60				4.46	10.00	85.54	10.32	2.27	-0.20	1.59	0.61
6.0	1491.9	0.976	0.065													
7.0	1489.4	0.974	0.065	81.1	14.19				2.03	10.49	87.48	10.36	2.01	-0.14	1.58	0.61
8.0	1489.4	0.974	0.065													
9.0	1488.6	0.973	0.065	80.1	13.46				1.23	9.29	89.47	10.39	1.82	-0.14	1.93	0.66
10.0	1488.6	0.973	0.048													
11.0	1488.6	0.973	0.031	78.9	13.25				0.89	9.34	89.76	10.45	1.85	-0.10	1.56	0.61
12.0	1488.6	0.973	0.048													
13.0	1488.6	0.973	0.048	77.5	16.41				1.75	8.57	89.68	10.37	1.82	-0.14	1.64	0.62
14.0	1490.1	0.974	0.065													
15.0	1491.6	0.975	0.083	77.1	17.66				2.49	10.53	86.98	10.25	2.05	-0.22	1.87	0.65
16.0	1491.6	0.975	0.083													
17.0	1490.8	0.975	0.065	77.4	18.46				1.78	9.67	88.56	10.41	1.95	-0.13	1.59	0.61
18.0	1490.8	0.975	0.065													
19.0	1490.8	0.975	0.048	77.4	16.70				0.88	9.80	89.31	10.47	1.90	-0.10	1.56	0.61
20.0	1491.2	0.975	0.048													
21.0	1490.5	0.975	0.048	76.3	16.34				0.44	8.44	91.11	10.53	1.81	-0.04	1.49	0.60
22.0	1490.8	0.975	0.048													
23.0	1489.0	0.974	0.065	76.3	19.73				0.90	8.57	90.54	10.48	1.81	-0.06	1.60	0.61
24.0	1489.4	0.974	0.048													
25.0	1489.4	0.974	0.048	76.0	19.37				0.66	9.22	90.12	10.55	1.87	-0.06	1.42	0.59
26.0																
27.0				75.7	19.05				0.49	9.64	89.87	10.45	1.83	-0.07	1.47	0.60
28.0																
29.0				76.3	19.44				0.53	9.59	89.88	10.34	1.75	-0.12	1.56	0.61

Cruise: BARTLT 1301-82 Sample: 68-4 Date: 11/18/81
Position: 13-34N;65-45W Depth: 4447m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.2	1.001	0.000													
0.0	1527.9	0.999	0.031													
1.0	1506.8	0.985	0.102					3.57								
2.0	1499.7	0.981	0.093													
3.0	1494.9	0.977	0.083													
4.0	1492.0	0.976	0.074													
5.0	1492.0	0.976	0.083					14.87								
6.0	1492.0	0.976	0.083													
7.0	1491.3	0.975	0.083					28.54								
8.0	1490.6	0.975	0.065													
9.0	1489.1	0.974	0.065													
10.0	1487.7	0.973	0.065													
11.0	1488.4	0.973	0.065					33.90								
12.0	1487.3	0.972	0.065													
13.0	1488.8	0.973	0.065					54.11								
14.0	1488.4	0.973	0.048													
15.0	1488.4	0.973	0.048													
16.0	1491.3	0.975	0.065													
17.0	1491.7	0.975	0.065					95.74								
18.0	1489.8	0.974	0.065													
19.0	1489.8	0.974	0.065					57.09								
20.0	1489.8	0.974	0.065													
21.0	1489.8	0.974	0.065					95.14								
22.0	1489.8	0.974	0.065													
23.0	1489.8	0.974	0.065													
24.0	1490.9	0.975	0.065													
25.0	1490.9	0.975	0.065					113.58								
26.0	1490.9	0.975	0.065													

Cruise: BARTLT 1301-82 Sample: 68-6 Date: 11/18/81
Position: 13-34N;65-45W Depth: 4447m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1531.0	1.001	0.000													
0.0	1524.9	0.997	0.102													
1.0	1502.0	0.982	0.093					2.97								
2.0	1499.1	0.980	0.083													
3.0	1496.5	0.978	0.083													
4.0	1494.3	0.977	0.083													
5.0	1493.2	0.976	0.074					11.89								
6.0	1492.8	0.976	0.074													
7.0	1492.8	0.976	0.083					33.30								
8.0	1490.3	0.974	0.065													
9.0	1489.2	0.974	0.048													
10.0	1489.6	0.974	0.048													
11.0	1490.3	0.974	0.048					46.38								
12.0	1490.3	0.974	0.048													
13.0	1490.3	0.974	0.065					73.74								
14.0	1489.2	0.974	0.065													
15.0	1492.8	0.976	0.065													
16.0	1493.9	0.977	0.065													
17.0	1492.1	0.976	0.065					68.38								
18.0	1490.3	0.974	0.065													
19.0	1490.6	0.975	0.065					67.20								
20.0	1491.4	0.975	0.065													
21.0	1491.0	0.975	0.065													
22.0	1491.4	0.975	0.048													
23.0	1492.5	0.976	0.065					105.85								
24.0	1491.7	0.975	0.083													
25.0	1491.7	0.975	0.065					76.12								
26.0	1493.2	0.976	0.083													
27.0	1494.7	0.977	0.083													
28.0	1495.0	0.978	0.294													
29.0	1493.2	0.976	0.370					70.76								

Cruise: BARTLT 1301-82 Sample: 68-7 Date: 11/18/81
Position: 13-34N;65-45W Depth: 4447m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.831	0.178									

Cruise: BARTLT 1301-82 Sample: 69-7 Date: 11/18/81
Position: 13-34N;65-28W Depth: 4188m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.4	1.001	-0.015													
0.0	1529.6	1.000	-0.015													
1.0	1513.3	0.989	0.140					2.38								
2.0	1503.2	0.983	0.140													
3.0	1503.2	0.983	0.097													
4.0	1494.0	0.977	0.097													
5.0	1492.6	0.976	0.097					9.51								
6.0	1492.6	0.976	0.087													
7.0	1491.8	0.975	0.078					44.00								
8.0	1490.4	0.975	0.068													
9.0	1490.0	0.974	0.050													
10.0	1489.7	0.974	0.059													
11.0	1489.7	0.974	0.050					63.63								
12.0	1489.7	0.974	0.068													
13.0	1489.6	0.974	0.050													
14.0	1489.7	0.974	0.050													
15.0	1492.6	0.976	0.050					85.63								
16.0	1493.7	0.977	0.078													
17.0	1493.3	0.976	0.078					115.36								
18.0	1493.3	0.976	0.068													
19.0	1493.3	0.976	0.078													
20.0	1491.5	0.975	0.068													
21.0								107.04								
22.0																
23.0																
24.0																
25.0								88.01								

Cruise: BARTL1 1301-82 Sample: 69-8 Date: 11/18/81
Position: 13-34N;65-28W Depth: 4188m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.2	1.001	-0.015													
0.0	1521.8	0.995	0.093													
1.0	1510.1	0.987	0.144					1.78								
2.0	1502.3	0.982	0.144													
3.0	1499.7	0.981	0.133													
4.0	1496.0	0.978	0.123													
5.0	1494.9	0.977	0.112					5.95								
6.0	1493.5	0.977	0.112													
7.0	1492.0	0.976	0.102					10.71								
8.0	1490.6	0.975	0.102													
9.0	1489.5	0.974	0.074													
10.0	1488.4	0.973	0.065													
11.0	1488.4	0.973	0.048					45.19								
12.0	1489.1	0.974	0.065													
13.0	1489.8	0.974	0.065					58.28								
14.0	1489.1	0.974	0.048													
15.0	1489.1	0.974	0.065													
16.0	1490.6	0.975	0.123													
17.0	1498.2	0.980	0.409					68.38								
18.0	1505.3	0.984	0.752													
19.0	1427.2	0.933	1.458					85.03								
20.0	1427.2	0.933	1.560													
21.0	1427.2	0.933	1.704													
22.0	1377.3	0.901	1.951													
23.0	1453.7	0.950	1.378					87.41								
24.0	1510.9	0.988	0.558													
25.0								96.33								

Cruise: BARTLT 1301-82 Sample: 69-9 Date: 11/18/81
Position: 13-34N;65-28W Depth: 4188m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.1	1.000	0.000													
0.0	1522.9	0.996	0.112													
1.0	1502.3	0.982	0.144	87.2	25.76				17.55	9.57	72.87	8.58	4.06	-0.50	1.38	0.58
2.0	1497.8	0.979	0.133													
3.0	1496.4	0.978	0.123	85.3	24.36				14.10	10.30	75.60	9.34	3.40	-0.45	1.52	0.60
4.0	1494.2	0.977	0.112													
5.0	1494.2	0.977	0.112	83.4	22.72				11.62	10.73	77.65	9.68	3.15	-0.39	1.64	0.62
6.0	1493.1	0.976	0.112													
7.0	1490.5	0.975	0.093	81.5	19.11				6.37	11.21	82.42	10.14	2.72	-0.28	1.58	0.61
8.0	1490.2	0.974	0.074													
9.0	1488.7	0.973	0.065	79.9	14.49				3.04	12.81	84.15	10.33	2.33	-0.12	1.07	0.52
10.0	1488.4	0.973	0.065													
11.0	1489.4	0.974	0.083	78.1	18.03				3.95	14.77	81.29	10.06	2.42	-0.23	1.22	0.55
12.0	1490.2	0.974	0.102													
13.0	1490.2	0.974	0.102	77.3	18.12				3.67	11.90	84.44	10.14	2.18	-0.16	1.36	0.58
14.0	1489.8	0.974	0.083													
15.0	1488.7	0.973	0.083	76.9	18.60				2.00	12.37	85.63	10.25	2.13	-0.09	1.24	0.55
16.0	1489.4	0.974	0.074													
17.0	1490.5	0.975	0.083	76.1	18.04				1.36	11.05	87.59	10.28	1.95	-0.14	1.31	0.57
18.0	1490.9	0.975	0.083													
19.0	1490.9	0.975	0.083	75.7	17.35				1.47	11.10	87.43	10.29	2.02	-0.13	1.32	0.57
20.0	1490.9	0.975	0.083													
21.0	1490.2	0.974	0.083	76.0	18.76				1.93	11.44	86.63	10.25	2.04	-0.12	1.36	0.58
22.0	1490.2	0.974	0.083													
23.0	1490.2	0.974	0.112	75.7	20.17				3.52	13.41	83.07	10.09	2.28	-0.20	1.29	0.56
24.0	1491.6	0.975	0.144													
25.0				76.1	21.81				3.79	11.92	84.29	10.22	2.29	-0.16	1.33	0.57
26.0																
27.0				75.9	23.35				4.93	12.17	82.91	10.14	2.54	-0.23	1.45	0.59

Cruise: BARTLT 1301-82 Sample: 69-10 Date: 11/18/81
Position: 13-34N;65-28W Depth: 4188m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.4	1.001	0.000													
0.0	1528.9	1.000	0.031													
1.0	1504.8	0.984	0.133					3.57								
2.0	1498.9	0.980	0.123													
3.0	1496.7	0.979	0.123													
4.0	1494.5	0.977	0.112													
5.0	1494.1	0.977	0.112					7.73								
6.0	1491.5	0.975	0.093													
7.0	1491.9	0.976	0.083					29.14								
8.0	1490.5	0.975	0.083													
9.0	1490.5	0.975	0.074													
10.0	1489.7	0.974	0.083													
11.0	1489.4	0.974	0.083					49.95								
12.0	1489.7	0.974	0.093													
13.0	1491.5	0.975	0.123					64.82								
14.0	1490.5	0.975	0.093													
15.0	1490.1	0.974	0.102													
16.0	1492.3	0.976	0.102													
17.0	1491.5	0.975	0.102					104.06								
18.0	1491.9	0.976	0.102													
19.0	1493.4	0.976	0.112					89.79								
20.0	1493.0	0.976	0.133													

Cruise: BARTLT 1301-82 Sample: 69-16 Date: 11/18/81
Position: 13-34N;65-28W Depth: 4188m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm.)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.618	0.138									

Cruise: BARTLT 1301-82 Sample: 70-3 Date: 11/19/81
Position: 13-33N;65-24W Depth: 3937m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.555	0.136									

Cruise: BARTLT 1301-82 Sample: 70-6 Date: 11/19/81
Position: 13-33N;65-25W Depth: 3937m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1523.3	0.996	0.000													
0.0	1501.5	0.982	0.152													
1.0	1491.9	0.975	0.129													
2.0	1489.0	0.974	0.140													
3.0	1486.8	0.972	0.140													
4.0	1485.0	0.971	0.129													
5.0	1485.0	0.971	0.118													
6.0	1484.3	0.970	0.097													
7.0	1484.3	0.970	0.097													
8.0	1484.3	0.970	0.108													
9.0	1483.9	0.970	0.129													
11.0	1494.1	0.977	0.399													
12.0	1483.9	0.970	0.118													
13.0	1483.5	0.970	0.152													
14.0	1486.4	0.972	0.279													
15.0	1492.3	0.976	0.558													
16.0	1500.4	0.981	0.529													
17.0	1500.4	0.981	0.467													
18.0	1505.9	0.985	0.750													
19.0	1505.9	0.985	1.196													
20.0	1497.4	0.979	0.455													
21.0	1495.6	0.978	0.334													
22.0	1492.3	0.976	0.296													
23.0	1489.3	0.974	0.217													
24.0	1491.9	0.975	0.334													

Cruise: BARTLT 1301-82 Sample: 70-9 Date: 11/19/81
Position: 13-33N;65-25W Depth: 3937m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1527.1	0.999	-0.015													
0.0	1515.7	0.991	0.068													
1.0	1496.7	0.979	0.059					5.95								
2.0	1492.6	0.976	0.129													
3.0	1490.4	0.975	0.129													
4.0	1490.1	0.974	0.118													
5.0	1490.1	0.974	0.118					14.27								
6.0	1490.1	0.974	0.108													
7.0	1489.3	0.974	0.097					22.60								
8.0	1489.3	0.974	0.097													
9.0	1491.5	0.975	0.118													
10.0	1491.5	0.975	0.129													
11.0	1489.0	0.974	0.108					64.82								
12.0	1489.7	0.974	0.118													
13.0	1489.3	0.974	0.097					79.68								
14.0	1487.5	0.973	0.078													
15.0	1487.5	0.973	0.068													
16.0	1487.5	0.973	0.078													
17.0	1488.6	0.973	0.118					145.69								
18.0	1492.6	0.976	0.118													
19.0	1492.6	0.976	0.129					83.25								
20.0	1491.5	0.975	0.108													
21.0	1490.1	0.974	0.118													
22.0	1490.1	0.974	0.118													
23.0	1490.4	0.975	0.203													
24.0																

Cruise: BARTLT 1301-82 Sample: 70-10 Date: 11/19/81
Position: 13-33N;65-25W Depth: 3937m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1526.4	0.998	0.000													
0.0	1507.4	0.986	0.177													
1.0	1495.9	0.978	0.164					5.35								
2.0	1491.9	0.975	0.152													
3.0	1490.8	0.975	0.152													
4.0	1489.7	0.974	0.140													
5.0	1488.6	0.973	0.140					14.27								
6.0	1488.2	0.973	0.118													
7.0	1487.9	0.973	0.097					11.89								
8.0	1487.9	0.973	0.087													
9.0	1487.9	0.973	0.087													
10.0	1487.2	0.972	0.087													
11.0	1486.8	0.972	0.087					17.24								
12.0	1489.0	0.974	0.129													
13.0	1491.2	0.975	0.190					15.46								
14.0	1491.2	0.975	0.177													
15.0	1487.9	0.973	0.140													
16.0	1487.9	0.973	0.108													
17.0	1486.4	0.972	0.087					95.14								
18.0	1486.4	0.972	0.068													
19.0	1486.8	0.972	0.059					126.07								
20.0	1490.4	0.975	0.108													
21.0	1490.4	0.975	0.097													
22.0	1490.1	0.974	0.108													
23.0	1489.3	0.974	0.129					78.49								
24.0	1489.3	0.974	0.247													
25.0	1489.0	0.974	0.232													

Cruise: BARTLT 1301-82 Sample: 70-11 Date: 11/19/81
Position: 13-33N;65-25W Depth: 3937m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1525.2	0.997	0.000													
0.0	1514.2	0.990	0.218													
1.0	1495.9	0.978	0.156	85.2	32.30				33.00	7.50	59.00	7.52	4.55	-0.46	0.59	0.37
2.0	1491.9	0.975	0.133													
3.0	1491.2	0.975	0.133	83.0	26.10				14.88	10.04	75.09	9.13	3.49	-0.49	1.64	0.62
4.0	1490.1	0.974	0.133													
5.0	1489.0	0.974	0.112	81.5	22.06				10.19	11.34	78.47	9.73	2.99	-0.39	1.83	0.65
6.0	1487.9	0.973	0.102													
7.0	1487.2	0.972	0.093	80.8	19.67				6.25	12.50	81.25	10.03	2.76	-0.29	1.54	0.61
8.0	1487.2	0.972	0.093													
9.0	1487.5	0.973	0.102	81.5	22.18				5.98	14.27	79.75	9.90	2.73	-0.31	1.57	0.61
10.0	1486.8	0.972	0.102													
11.0	1486.8	0.972	0.112	78.1	20.78				4.26	14.25	81.49	10.08	2.50	-0.21	1.24	0.55
12.0	1487.2	0.972	0.083													
13.0	1487.9	0.973	0.083	77.5	20.80				2.99	12.40	84.61	10.29	2.25	-0.13	1.21	0.55
14.0	1487.5	0.973	0.093													
15.0	1487.5	0.973	0.093	76.7	21.00				4.19	11.48	84.33	10.17	2.29	-0.20	1.49	0.60
16.0	1497.9	0.973	0.083													
17.0	1492.3	0.976	0.112	76.0	19.38				2.57	11.33	86.10	10.12	2.00	-0.18	1.54	0.61
18.0	1491.5	0.975	0.102													
19.0	1490.4	0.975	0.102	76.7	21.50				2.97	11.97	85.06	10.15	2.13	-0.15	1.35	0.57
20.0	1488.6	0.973	0.102													
21.0	1488.2	0.973	0.112	77.5	22.24				4.11	12.45	83.44	10.14	2.34	-0.20	1.39	0.58
22.0																
23.0				76.8	21.92				3.44	12.46	84.10	10.22	2.28	-0.16	1.27	0.56
24.0																
25.0				75.8	22.21				3.27	14.16	82.57	10.04	2.31	-0.20	1.31	0.57

Cruise: BARTLT 1301-82 Sample: 71-7 Date: 11/19/81
Position: 13-31N;65-10W Depth: 3775m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1524.4	0.997	0.000													
0.0	1512.7	0.989	0.156													
1.0	1494.5	0.977	0.218					7.14								
2.0	1491.5	0.975	0.232													
3.0	1489.0	0.974	0.167													
4.0	1487.2	0.972	0.167													
5.0	1487.2	0.972	0.156					17.84								
6.0	1486.1	0.972	0.144													
7.0	1486.1	0.972	0.144					19.62								
8.0	1486.1	0.972	0.144													
9.0	1486.4	0.972	0.133													
10.0	1485.3	0.971	0.144													
11.0	1483.5	0.970	0.205					52.33								
12.0	1482.4	0.969	0.167													
13.0	1482.8	0.970	0.133					90.98								
14.0	1483.9	0.970	0.133													
15.0	1484.3	0.970	0.133													
16.0	1487.5	0.973	0.144													
17.0	1483.9	0.970	0.133					125.69								
18.0	1485.3	0.971	0.144													
19.0	1488.2	0.973	0.167					79.09								
20.0	1487.2	0.972	0.167													
21.0	1486.8	0.972	0.192													
22.0	1483.9	0.970	0.144													
23.0	1487.9	0.973	0.205					90.98								

Cruise: BARTLT 1301-82 Sample: 71-8 Date: 11/19/81
Position: 13-31N;65-10W Depth: 3775m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1522.9	0.996	0.015													
0.0	1516.8	0.992	0.205													
1.0	1495.2	0.978	0.218					5.95								
2.0	1490.4	0.975	0.192													
3.0	1488.2	0.973	0.179													
4.0	1487.2	0.972	0.167													
5.0	1487.2	0.972	0.167					13.68								
6.0	1485.3	0.971	0.144													
7.0	1485.3	0.971	0.133					17.84								
8.0	1486.4	0.972	0.144													
9.0	1484.6	0.971	0.133													
10.0	1483.9	0.970	0.123													
11.0	1484.6	0.971	0.144					70.41								
12.0	1484.3	0.970	0.133													
13.0	1483.2	0.970	0.102					96.93								
14.0	1483.2	0.970	0.093													
15.0	1483.2	0.970	0.093													
16.0	1483.5	0.970	0.102													
17.0	1485.0	0.971	0.102					118.93								
18.0	1486.4	0.972	0.144													
19.0	1484.3	0.970	0.144					165.31								
20.0	1490.1	0.974	0.167													
21.0	1489.7	0.974	0.192													
22.0	1485.0	0.971	0.144													
23.0	1483.2	0.970	0.133					96.93								
24.0	1482.8	0.970	0.123													
25.0	1485.3	0.971	0.192													

Cruise: BARTLT 1301-82 Sample: 71-9 Date: 11/19/81
Position: 13-31N;65-10W Depth: 3775m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1523.7	0.996	0.015													
0.0	1520.6	0.994	0.102													
1.0	1494.8	0.977	0.083					8.32								
2.0	1490.8	0.975	0.167													
3.0	1488.2	0.973	0.167													
4.0	1487.5	0.973	0.167													
5.0	1486.1	0.972	0.156					23.79								
6.0	1485.0	0.971	0.133													
7.0	1485.3	0.971	0.133					26.76								
8.0	1485.0	0.971	0.123													
9.0	1485.0	0.971	0.112													
10.0	1485.0	0.971	0.123													
11.0	1485.0	0.971	0.123					54.11								
12.0	1483.9	0.970	0.102													
13.0	1482.4	0.969	0.093					98.71								
14.0	1482.4	0.969	0.102													
15.0	1482.4	0.969	0.102													
16.0	1484.3	0.970	0.093													
17.0	1489.7	0.974	0.144					127.26								
18.0	1487.5	0.973	0.144													
19.0	1487.5	0.973	0.156					84.44								
20.0	1485.0	0.971	0.133													
21.0	1483.9	0.970	0.133													
22.0	1485.0	0.971	0.247													
23.0	1486.1	0.972	0.349					93.36								
24.0	1486.1	0.972	0.370													

Cruise: BARTLT 1301-82 Sample: 71-10 Date: 11/19/81
Position: 13-31N;65-10W Depth: 3775m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1523.7	0.996	0.015													
0.0	1521.8	0.995	0.065													
1.0	1501.8	0.982	0.192	85.3	26.81				15.09	11.37	73.54	9.09	3.58	-0.48	1.42	0.59
2.0	1498.5	0.980	0.247													
3.0	1496.7	0.979	0.294	83.5	28.07				15.40	11.89	72.71	8.90	3.71	-0.48	1.35	0.58
4.0	1489.3	0.974	0.232													
5.0	1487.9	0.973	0.218	82.1	26.51				14.73	11.32	73.94	9.19	3.57	-0.45	1.42	0.59
6.0	1487.2	0.972	0.218													
7.0	1485.3	0.971	0.167	79.5	22.23				8.72	12.18	79.10	9.83	2.98	-0.37	1.62	0.62
8.0	1485.0	0.971	0.144													
9.0	1485.0	0.971	0.156	78.2	23.32				6.21	12.72	81.07	10.02	2.73	-0.31	1.63	0.62
10.0	1486.6	0.972	0.294													
11.0	1486.4	0.972	0.247	77.0	21.60				4.81	14.70	80.49	9.90	2.54	-0.30	1.48	0.60
12.0	1485.0	0.971	0.167													
13.0	1486.1	0.972	0.179	76.9	21.28				3.72	11.65	84.63	10.09	2.18	-0.24	1.75	0.64
14.0	1489.0	0.974	0.232													
15.0	1491.5	0.975	0.493	76.8	21.52				2.41	11.96	85.62	10.13	2.02	-0.20	1.64	0.62
16.0	1494.1	0.977	0.506													
17.0	1502.2	0.982	0.740	76.5	21.80				4.66	14.20	81.13	9.93	2.50	-0.28	1.58	0.61
18.0	1492.3	0.976	0.409													
19.0	1454.4	0.951	0.192	76.0	19.02				2.09	13.48	84.43	10.01	2.05	-0.24	1.57	0.61
20.0																
21.0				75.4	22.93				6.58	13.38	80.05	9.81	2.77	-0.36	1.70	0.63

Cruise: BARTLT 1301-82 Sample: 73-15 Date: 11/20/81
Position: 13-33N;64-42W Depth: 3542m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1522.9	0.996	0.000													
0.0	1507.8	0.986	0.278													
1.0	1491.9	0.976	0.192					10.11								
2.0	1488.6	0.973	0.156													
3.0	1487.2	0.972	0.167													
4.0	1486.6	0.972	0.156													
5.0	1486.6	0.972	0.144					24.98								
6.0	1487.9	0.973	0.144													
7.0	1487.9	0.973	0.167					37.48								
8.0	1486.6	0.972	0.156													
9.0	1488.6	0.973	0.156													
10.0	1490.1	0.974	0.218													
11.0	1491.2	0.975	0.391					38.06								
12.0	1490.5	0.975	0.205													
13.0	1491.9	0.976	0.247					106.44								
14.0	1497.1	0.979	0.330													
15.0	1506.3	0.985	0.409													
16.0	1513.8	0.990	1.344													
17.0	1530.5	1.001	1.169					137.36								
18.0	1530.5	1.001	1.344													
19.0	1529.4	1.000	1.131					106.44								
20.0	1529.4	1.000	1.344													
21.0	1529.4	1.000	1.560													
22.0	1518.7	0.993	0.942													
23.0	1509.3	0.987	0.820					86.22								
24.0	1501.1	0.982	0.471													
25.0	1498.5	0.980	0.349					93.36								
26.0	1496.7	0.979	0.312													
27.0	1497.8	0.979	0.312													
28.0	1504.4	0.984	0.205													
29.0								63.63								

Cruise: BARTLT 1301-82 Sample: 73-17 Date: 11/20/81
Position: 13-33N;64-42W Depth: 3542m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.650	0.129									

Cruise: BARTLT 1301-82 Sample: 73-18 Date: 11/20/81
Position: 13-33N;64-42W Depth: 3542m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm.)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.585	0.096									
2.0																
3.0						0.510	0.101									
4.0																
5.0						0.507	0.106									
6.0																
7.0						0.495	0.106									
8.0																
9.0						0.585	0.114									
10.0																
11.0						0.663	0.118									
12.0																
13.0						0.661	0.128									
14.0																
15.0						0.731	0.130									
16.0																
17.0						0.673	0.124									
18.0																
19.0						0.639	0.114									
20.0																
21.0						0.580	0.106									
22.0																
23.0						0.455	0.092									
24.0																
25.0						0.503	0.090									
26.0																
27.0						0.457	0.088									
28.0																
29.0						0.450	0.086									
30.0																
31.0						0.449	0.089									

Cruise: BARTLT 1301-82 Sample: 74-1 Date: 11/21/81
Position: 13-32N;64-44W Depth: 3503m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1530.1	1.000	0.015													
0.0	1507.4	0.986	0.167													
1.0	1499.2	0.980	0.179					5.35								
2.0	1495.9	0.978	0.179													
3.0	1494.8	0.977	0.218													
4.0	1492.3	0.976	0.156													
5.0	1491.6	0.975	0.144					20.22								
6.0	1491.6	0.975	0.144													
7.0	1491.6	0.975	0.167					29.14								
8.0	1491.6	0.975	0.167													
9.0	1491.2	0.975	0.156													
10.0	1491.6	0.975	0.179													
11.0	1490.5	0.975	0.179					50.55								
12.0	1490.5	0.975	0.156													
13.0	1488.6	0.973	0.133					67.79								
14.0	1487.9	0.973	0.102													
15.0	1488.6	0.973	0.102													
16.0	1490.1	0.974	0.112													
17.0	1494.8	0.977	0.278					133.80								
18.0	1500.0	0.981	0.419													
19.0	1500.0	0.981	0.294					81.47								
20.0	1498.5	0.980	0.278													
21.0	1498.5	0.980	0.312													
22.0	1497.8	0.979	0.312													
23.0	1501.5	0.982	0.518					79.68								
24.0	1504.8	0.984	0.493													
25.0	1503.3	0.983	0.638					77.90								
26.0	1507.0	0.985	0.964													
27.0	1507.0	0.985	0.696													
28.0	1501.8	0.982	0.544													
29.0	1500.7	0.981	0.518					75.52								

Cruise: BARTLT 1301-82 Sample: 74-2 Date: 11/21/81
Position: 13-32N;64-44W Depth: 3503m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0	1497.0	0.979	0.232					6.54								
2.0	1493.4	0.976	0.218													
3.0	1492.6	0.976	0.192													
4.0	1492.6	0.976	0.192													
5.0	1494.1	0.977	0.205					24.38								
6.0	1491.6	0.975	0.192													
7.0	1491.2	0.975	0.192					35.68								
8.0	1493.7	0.977	0.232													
9.0	1493.7	0.977	0.216													
10.0	1492.6	0.976	0.167													
11.0	1491.9	0.976	0.144					47.57								
12.0	1490.8	0.975	0.144													
13.0	1493.0	0.976	0.167					63.63								
14.0	1492.6	0.976	0.179													
15.0	1492.6	0.976	0.144													
16.0	1494.5	0.977	0.144													
17.0	1496.7	0.979	0.167					102.87								
18.0	1493.4	0.976	0.179													
19.0	1493.4	0.976	0.205					115.36								
20.0	1494.8	0.977	0.218													
21.0	1500.0	0.981	0.247													
22.0	1495.6	0.978	0.205													
23.0	1494.1	0.977	0.232					83.27								
24.0	1493.4	0.976	0.205													
25.0	1493.7	0.977	0.192					83.84								
26.0	1496.7	0.979	0.247													

Cruise: BARTLT 1301-82 Sample: 74-3 Date: 11/21/81
Position: 13-32N;64-44W Depth: 3503m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1527.8	0.999	0.000													
0.0	1514.1	0.990	0.205													
1.0	1497.0	0.979	0.192													
2.0	1491.2	0.975	0.192													
3.0	1492.6	0.976	0.179													
4.0	1492.8	0.976	0.192													
5.0	1490.5	0.975	0.179													
6.0	1489.7	0.974	0.167													
7.0	1489.7	0.974	0.156													
8.0	1489.0	0.974	0.167													
9.0	1489.4	0.974	0.156													
10.0	1488.6	0.973	0.179													
11.0	1488.3	0.973	0.179													
12.0	1488.6	0.973	0.167													
13.0	1488.6	0.973	0.167													
14.0	1488.6	0.973	0.179													
15.0	1487.9	0.973	0.179													
16.0	1487.2	0.972	0.133													
17.0	1488.3	0.973	0.133													
18.0	1491.2	0.975	0.144													
19.0	1501.5	0.982	0.544													
20.0	1512.3	0.989	0.942													
21.0	1512.6	0.989	1.169													
22.0	1511.1	0.988	1.038													
23.0	1510.8	0.988	1.378													
24.0	1513.8	0.990	1.458													
25.0	1503.3	0.983	1.458													
26.0	1498.1	0.980	0.885													
27.0	1505.2	0.984	0.620													
28.0	1501.8	0.982	0.820													

Cruise: BARTLT 1301-82 Sample: 76-8 Date: 11/21/81
Position: 13-33N;64-41W Depth: 3490m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1527.3	0.999	0.000													
0.0	1502.4	0.982	0.159													
1.0	1493.2	0.976	0.159													
2.0	1491.0	0.975	0.206													
3.0	1489.9	0.974	0.194													
4.0	1488.8	0.973	0.194													
5.0	1489.2	0.974	0.194													
6.0	1489.9	0.974	0.182													
7.0	1489.9	0.974	0.182													
8.0	1489.9	0.974	0.206													
9.0	1490.6	0.975	0.233													
10.0	1490.3	0.974	0.206													
11.0	1489.5	0.974	0.194													
12.0	1488.1	0.973	0.170													
13.0	1488.1	0.973	0.159													
14.0	1488.1	0.973	0.159													
15.0	1487.7	0.973	0.137													
16.0	1488.1	0.973	0.137													
17.0	1489.9	0.974	0.170													
18.0	1490.6	0.975	0.206													
19.0	1491.4	0.975	0.182													
20.0	1491.7	0.975	0.194													
21.0	1491.0	0.975	0.194													
22.0	1493.6	0.977	0.182													
23.0	1499.1	0.980	0.219													
24.0	1496.1	0.978	0.233													
25.0	1497.2	0.979	0.292													
26.0	1493.2	0.976	0.276													
27.0	1491.7	0.975	0.261													
28.0	1488.4	0.973	0.292													
29.0	1491.4	0.975	0.261													
30.0	1493.9	0.977	0.364													

Cruise: BARTL1 1301-82 Sample: 76-11 Date: 11/21/81
Position: 13-33N;64-41W Depth: 3490m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1527.6	0.999	0.000													
0.0	1525.7	0.998	0.048													
1.0	1507.2	0.986	0.294					8.33								
2.0	1495.0	0.978	0.218													
3.0	1492.1	0.976	0.192													
4.0	1491.7	0.975	0.192													
5.0	1490.6	0.975	0.179					22.60								
6.0	1489.9	0.974	0.167													
7.0	1491.0	0.975	0.156					40.44								
8.0	1491.0	0.975	0.167													
9.0	1491.4	0.975	0.192													
10.0	1491.4	0.975	0.167													
11.0	1490.6	0.975	0.179					52.33								
12.0	1490.6	0.975	0.167													
13.0	1489.2	0.974	0.156					76.12								
14.0	1489.5	0.974	0.144													
15.0	1488.8	0.973	0.123													
16.0	1490.6	0.975	0.167													
17.0	1491.7	0.975	0.179					133.20								
18.0	1493.6	0.977	0.167													
19.0	1494.7	0.977	0.156					107.63								
20.0	1493.9	0.977	0.156													
21.0	1493.2	0.976	0.167													
22.0	1493.2	0.976	0.192													
23.0	1498.0	0.979	0.247					141.53								
24.0	1497.2	0.979	0.294													
25.0	1494.3	0.977	0.312					113.58								
26.0	1492.5	0.976	0.218													
27.0	1491.7	0.975	0.218													
28.0	1487.4	0.973	0.247													

Cruise: BARTLT 1301-82 Sample: 77-2 Date: 11/22/81
Position: 13-28N;64-40W Depth: 3477m
Calculated for: 23.0 Deg-C 35.00 c/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.6	0.999	0.000													
0.0	1513.4	0.990	0.278													
1.0	1498.9	0.980	0.218						15.56	12.31	72.14	9.07	3.61	-0.46	1.29	0.55
2.0	1493.0	0.976	0.179													
3.0	1491.2	0.975	0.179													
4.0	1491.2	0.975	0.205													
5.0	1491.2	0.975	0.179													
6.0	1491.2	0.975	0.167													
7.0	1490.8	0.975	0.192													
8.0	1490.8	0.975	0.179													
9.0	1490.8	0.975	0.179													
10.0	1490.1	0.974	0.144													
11.0	1490.1	0.974	0.133													
12.0	1489.7	0.974	0.133													
13.0	1490.8	0.975	0.144													
14.0	1491.2	0.975	0.167													
15.0	1490.8	0.975	0.133													
16.0	1493.0	0.976	0.133													
17.0	1493.0	0.976	0.144													
18.0	1495.6	0.978	0.156													
19.0	1497.4	0.979	0.179													
20.0	1494.8	0.977	0.192													
21.0	1492.6	0.976	0.192													
22.0	1491.5	0.975	0.205													
23.0	1493.7	0.977	0.312													

Cruise: BARTLT 1301-82 Sample: 77-3 Date: 11/22/81
Position: 13-28N;64-40W Depth: 3477m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm.)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1527.1	0.998	0.000													
0.0	1522.5	0.995	0.102													
1.0	1504.4	0.984	0.232					5.35								
2.0	1493.4	0.976	0.247													
3.0	1492.3	0.976	0.179													
4.0	1490.8	0.975	0.179													
5.0	1490.1	0.974	0.167					25.57								
6.0	1489.7	0.974	0.167													
7.0	1489.7	0.974	0.156					49.95								
8.0	1490.1	0.974	0.167													
9.0	1490.1	0.974	0.167													
10.0	1490.1	0.974	0.218													
11.0	1490.1	0.974	0.192					71.95								
12.0	1489.3	0.974	0.133													
13.0	1488.3	0.973	0.123					126.60								
14.0	1488.3	0.973	0.123													
15.0	1490.4	0.975	0.144													
16.0	1494.1	0.977	0.167													
17.0	1493.0	0.976	0.156					159.37								
18.0	1494.5	0.977	0.144													
19.0	1492.3	0.976	0.156					107.04								
20.0	1490.1	0.974	0.156													
21.0	1487.2	0.972	0.167													
22.0	1493.0	0.976	0.294													
23.0	1512.6	0.989	1.211					114.77								
24.0	1503.3	0.983	0.531													
25.0	1493.7	0.977	0.409					68.38								
26.0	1492.3	0.976	0.349													

Cruise: BARTLI 1301-82 Sample: 79-8 Date: 11/22/81
Position: 13-33N;64-43W Depth: 3495m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.8	1.000	0.000													
0.0	1518.5	0.993	0.167													
1.0	1494.6	0.977	0.167													
2.0	1492.4	0.976	0.167													
3.0	1491.3	0.975	0.167													
4.0	1491.0	0.975	0.179													
5.0	1489.9	0.974	0.192													
6.0	1489.9	0.974	0.205													
7.0	1490.6	0.975	0.192													
8.0	1491.3	0.975	0.205													
9.0	1490.6	0.975	0.205													
10.0	1491.3	0.975	0.218													
11.0	1489.9	0.974	0.262													
12.0	1489.5	0.974	0.144													
13.0	1488.1	0.973	0.133													
14.0	1488.1	0.973	0.123													
15.0	1489.5	0.974	0.144													
16.0	1491.7	0.975	0.179													
17.0	1493.5	0.977	0.205													
18.0	1494.3	0.977	0.247													
19.0	1497.2	0.979	0.312													
20.0	1496.1	0.978	0.278													
21.0	1493.0	0.976	0.218													
22.0	1493.2	0.976	0.205													
23.0	1497.2	0.979	0.294													
24.0	1512.1	0.989	0.876													
25.0	1496.5	0.978	0.330													
26.0	1492.8	0.976	0.232													
27.0	1500.2	0.981	0.675													
28.0	1500.2	0.981	0.717													

Cruise: BARTLT 1301-82 Sample: 79-9 Date: 11/22/81
Position: 13-33N;64-43W Depth: 3495m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.2	0.999	0.015													
0.0	1526.3	0.998	0.048													
1.0	1503.7	0.983	0.179					6.54								
2.0	1495.5	0.978	0.205													
3.0	1493.7	0.977	0.218													
4.0	1491.9	0.975	0.205													
5.0	1491.9	0.975	0.218					29.54								
6.0	1493.7	0.977	0.218													
7.0	1493.0	0.976	0.232					41.03								
8.0	1492.6	0.976	0.232													
9.0	1490.8	0.975	0.218													
10.0	1490.0	0.974	0.179													
11.0	1489.0	0.974	0.156					55.30								
12.0	1490.4	0.975	0.167													
13.0	1491.9	0.975	0.312					70.76								
14.0	1490.0	0.974	0.167													
15.0	1490.0	0.974	0.144													
16.0	1489.3	0.974	0.144													
17.0	1492.2	0.976	0.156					101.09								
18.0	1491.5	0.975	0.144													
19.0	1494.1	0.977	0.179					95.15								
20.0	1493.0	0.976	0.205													
21.0	1493.0	0.976	0.218													
22.0	1493.3	0.976	0.218													
23.0	1492.6	0.976	0.205					110.01								
24.0	1461.1	0.955	0.232													
25.0	1491.1	0.975	0.247					71.35								

Cruise: BARTLT 1301-82 Sample: 79-18 Date: 11/22/81
Position: 13-33N;64-43W Depth: 3495m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
1.0						0.535	0.109									
2.0																
3.0						0.571	0.105									
4.0																
5.0						0.463	0.106									

Cruise: BARTLT 1301-82 Sample: 80-2 Date: 11/23/81
Position: 13-32N;;64-32W Depth: 3429m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

Depth (cm)	Vp m/sec	Vp Ratio	Attn. K	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1529.0	1.000	0.000													
0.0	1519.0	0.993	0.123													
1.0	1498.5	0.980	0.167	84.4	27.70				12.23	12.95	74.82	9.41	3.36	-0.43	1.53	0.61
2.0	1493.0	0.976	0.167													
3.0	1492.6	0.976	0.205	81.3	27.46				13.39	12.45	74.16	9.18	3.40	-0.48	1.57	0.61
4.0	1494.1	0.977	0.262													
5.0	1491.9	0.975	0.205	80.6	25.19				11.69	13.20	75.11	9.37	3.24	-0.46	1.61	0.62
6.0	1490.4	0.975	0.167													
7.0	1490.4	0.975	0.144	79.5	25.10				9.41	13.74	76.84	9.72	3.15	-0.38	1.48	0.60
8.0	1490.4	0.975	0.156													
9.0	1492.6	0.976	0.156	79.3	24.51				7.66	15.41	76.94	9.67	2.95	-0.38	1.53	0.60
10.0	1492.2	0.976	0.167													
11.0	1492.2	0.976	0.167	77.9	24.87				7.89	16.88	75.24	9.49	2.98	-0.43	1.53	0.60
12.0	1489.0	0.974	0.167													
13.0	1489.3	0.974	0.156	78.1	23.44				6.54	16.98	76.48	9.71	2.87	-0.36	1.37	0.58
14.0	1489.0	0.974	0.144													
15.0	1489.3	0.974	0.144	77.1	23.34				6.13	12.17	81.69	9.92	2.63	-0.35	1.81	0.64
16.0	1489.0	0.974	0.144													
17.0	1487.9	0.973	0.144	77.0	23.00				5.27	16.69	78.04	9.75	2.64	-0.33	1.40	0.58
18.0	1491.9	0.975	0.156													
19.0	1492.6	0.976	0.144	76.6	25.60				4.69	13.24	82.08	9.83	2.31	-0.36	1.74	0.63
20.0	1492.2	0.976	0.167													
21.0	1492.2	0.976	0.179	75.6	24.65				5.68	14.63	79.68	9.81	2.66	-0.35	1.55	0.61
22.0	1493.0	0.976	0.179													
23.0	1500.3	0.981	0.247	75.7	25.42				4.67	17.60	77.73	9.63	2.54	-0.35	1.40	0.58
24.0	1502.6	0.982	0.278													
25.0	1494.1	0.977	0.232	76.2	27.70				10.43	14.66	74.91	9.34	3.17	-0.46	1.59	0.61
26.0	1494.8	0.977	0.262													
27.0	1494.1	0.977	0.330	75.4	29.03				11.01	16.43	72.56	9.26	3.35	-0.43	1.31	0.57
28.0																
29.0				75.5	26.48				7.31	16.52	76.16	9.59	2.96	-0.39	1.42	0.59
30.0																
31.0				76.4	27.18				8.26	15.26	76.48	9.76	3.12	-0.35	1.36	0.58

Cruise: BARTLT 1301-82 Sample: 82-1 Date: 11/23/81
Position: 13-35N;64-40W Depth: 3433m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

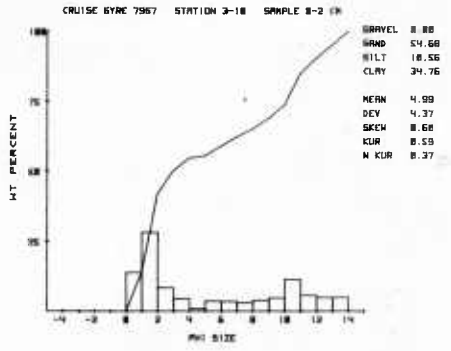
Depth (cm.)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.2	0.999	0.000													
0.0	1527.1	0.998	0.031													
1.0	1506.7	0.985	0.312						25.06	10.05	64.86	7.67	4.20	-0.64	0.73	0.42
2.0	1496.3	0.978	0.192													
3.0	1494.1	0.977	0.192													
4.0	1492.2	0.976	0.205													
5.0	1492.2	0.976	0.192													
6.0	1492.2	0.976	0.192													
7.0	1492.2	0.976	0.192													
8.0	1491.5	0.975	0.218													
9.0	1491.5	0.975	0.391													
10.0	1498.1	0.980	1.131													
11.0	1498.5	0.980	0.370													
12.0	1495.2	0.978	0.247													
13.0	1492.6	0.976	0.247													
14.0	1491.5	0.975	0.330													
15.0	1490.6	0.975	0.247													
16.0	1490.0	0.974	0.218													
17.0	1491.5	0.975	0.247													
18.0	1490.8	0.975	0.218													
19.0	1491.9	0.975	0.192													
20.0	1495.5	0.978	0.218													
21.0	1497.0	0.979	0.247													
22.0	1494.4	0.977	0.218													
23.0	1495.5	0.978	0.247													
24.0	1494.8	0.977	0.218													

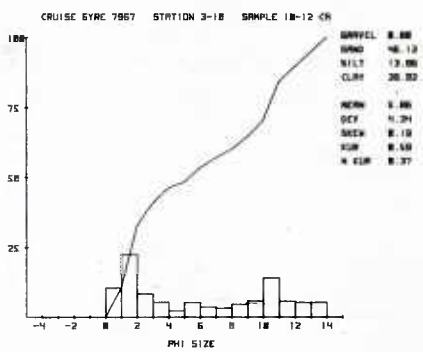
Cruise: BARTLT 1301-82 Sample: 82-2 Date: 11/23/81
Position: 13-35N;64-40W Depth: 3433m
Calculated for: 23.0 Deg-C 35.00 o/oo 0 m 400 kHz

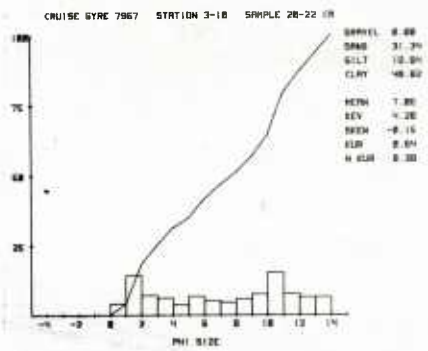
Depth (cm)	Vp m/sec	Vp Ratio	Attn. k	% Por.	% CaCO3	% C	% N	Shear Str.	% Sand	% Silt	% Clay	Mean Phi	Dev	Skew	Kurt	N. Kurt
WATER	1528.5	0.999	0.000													
0.0	1514.0	0.990	0.144													
1.0	1502.1	0.982	0.247					4.76								
2.0	1495.4	0.978	0.179													
3.0	1493.2	0.976	0.192													
4.0	1492.8	0.976	0.218													
5.0	1492.5	0.976	0.205					18.43								
6.0	1491.4	0.975	0.205													
7.0	1490.3	0.974	0.167					29.73								
8.0	1489.2	0.974	0.144													
9.0	1490.6	0.975	0.144													
10.0	1491.0	0.975	0.167													
11.0	1490.6	0.975	0.167					27.95								
12.0	1499.5	0.980	0.482													
13.0	1511.4	0.988	0.656					65.41								
14.0	1505.0	0.984	0.885													
15.0	1500.2	0.981	0.791													
16.0	1495.0	0.978	0.349													
17.0	1492.1	0.976	0.262					92.77								
18.0	1492.8	0.976	0.218													
19.0	1493.6	0.977	0.167					92.77								
20.0	1496.5	0.979	0.247													
21.0	1494.3	0.977	0.247													
22.0	1491.4	0.975	0.218													
23.0	1492.5	0.976	0.330					73.74								

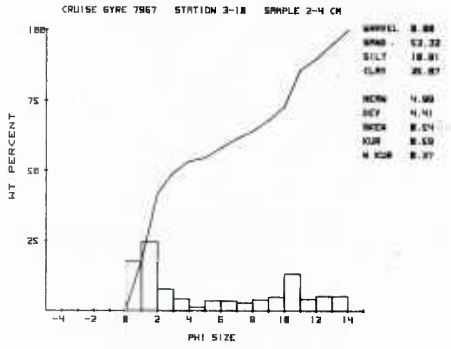
APPENDIX B
FREQUENCY HISTOGRAMS OF GRAIN SIZE DISTRIBUTION DATA FOR SEDIMENTS COLLECTED IN BOX CORES FROM THE VENEZUELA BASIN

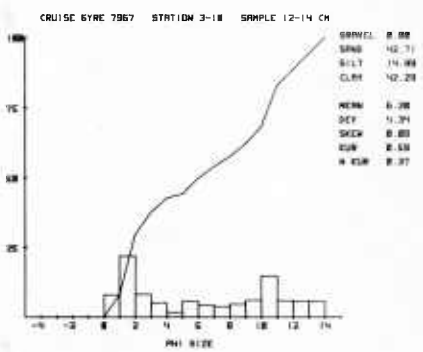
Grain size data are plotted as weight percent histograms and cumulative weight curves for phi sizes -4 through 14. Also included are percentage gravel, sand, silt, and clay and Folk and Ward's mean phi, standard deviation, skewness, kurtosis, and normalized kurtosis. Data include three stations from location 1, five stations from location 2, three stations from location 3, three stations along a transect from location 1 to location 2, and five stations along a transect from location 2 to location 3.

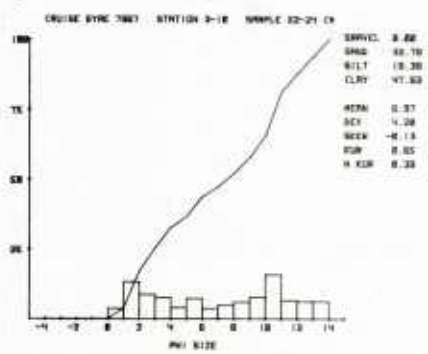

CRUISE GYRE 7967 STATION 3-18 SAMPLE 0-2 CM
GRAVEL 0.00
SAND 54.68
SILT 10.56
CLAY 34.76
MEAN 4.99
DEV 4.37
SKEW 0.68
KUR 0.59
W KUR 0.37
WT PERCENT
PHI SIZE

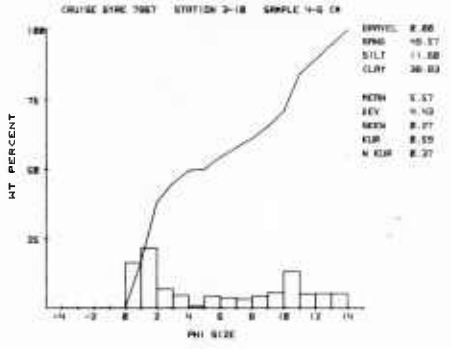

CRUISE GYRE 7967 STATION 3-18 SAMPLE 10-12 CM
PHI SIZE

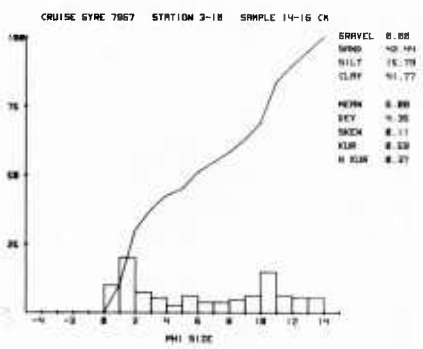

CRUISE GYRE 7967 STATION 3-18 SAMPLE 20-22 CM
PHI SIZE

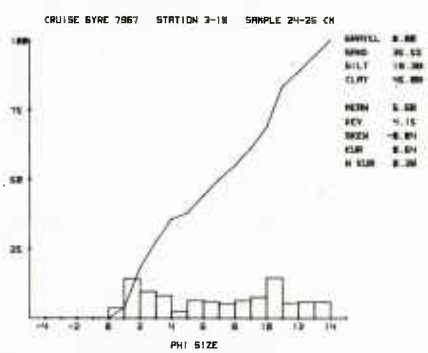

CRUISE GYRE 7967 STATION 3-18 SAMPLE 2-4 CM
WT PERCENT
PHI SIZE

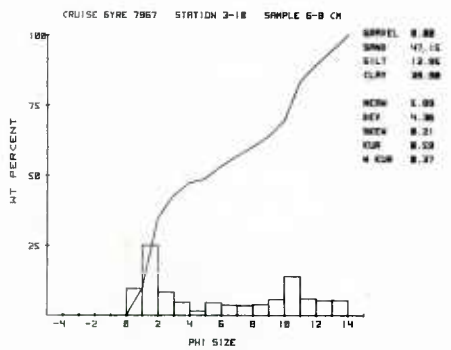

CRUISE GYRE 7967 STATION 3-18 SAMPLE 12-14 CM
PHI SIZE

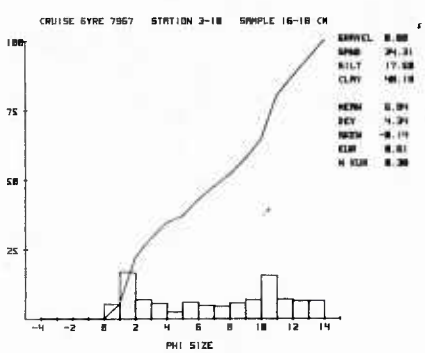

CRUISE GYRE 7967 STATION 3-18 SAMPLE 22-24 CM
PHI SIZE

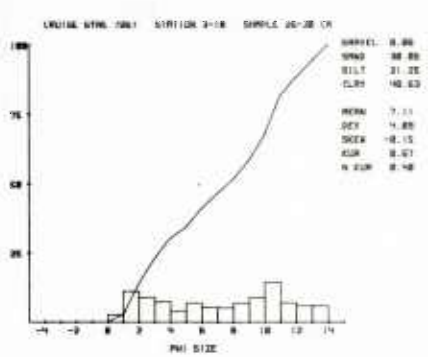

CRUISE GYRE 7967 STATION 3-18 SAMPLE 4-6 CM
WT PERCENT
PHI SIZE

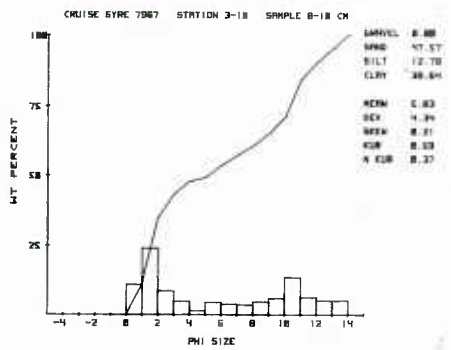

CRUISE GYRE 7967 STATION 3-18 SAMPLE 14-16 CM
PHI SIZE

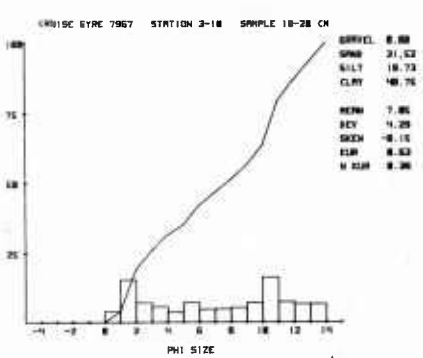

CRUISE GYRE 7967 STATION 3-18 SAMPLE 24-26 CM
PHI SIZE

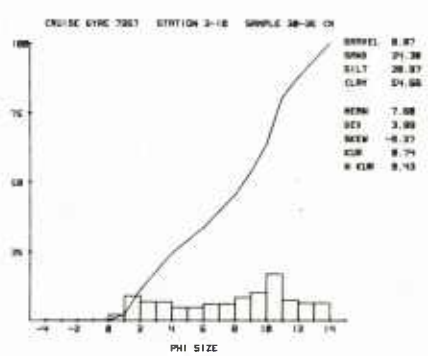

CRUISE GYRE 7967 STATION 3-18 SAMPLE 6-8 CM
WT PERCENT
PHI SIZE


CRUISE GYRE 7967 STATION 3-18 SAMPLE 16-18 CM
PHI SIZE


PHI SIZE


CRUISE GYRE 7967 STATION 3-18 SAMPLE 8-10 CM
WT PERCENT
PHI SIZE


CRUISE GYRE 7967 STATION 3-18 SAMPLE 18-20 CM
PHI SIZE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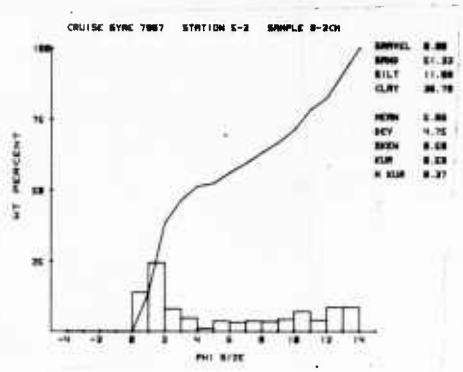
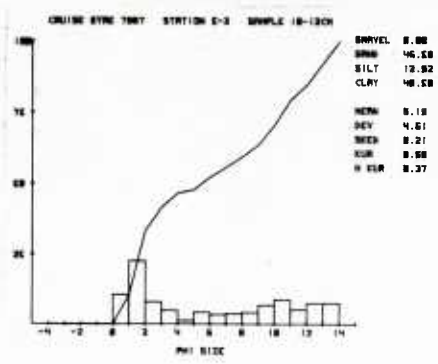
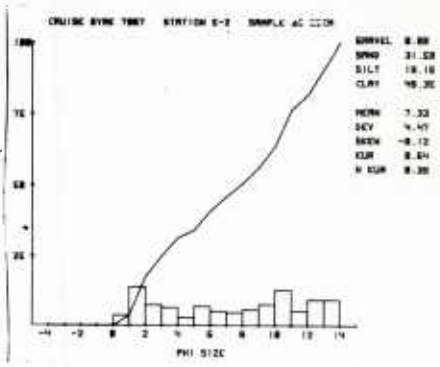
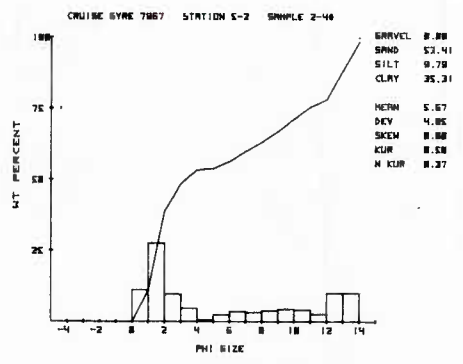
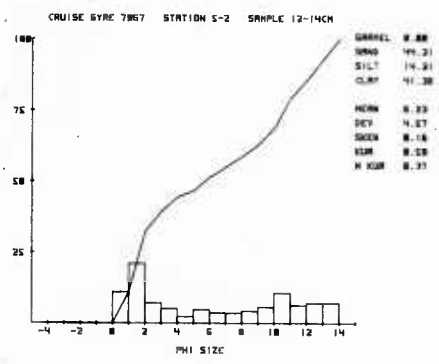
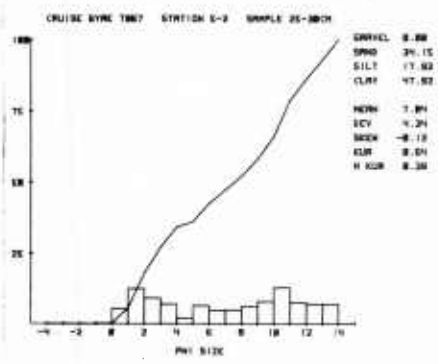

CRUISE GYRE 7967 STATION S-2 SAMPLE 0-2CM
WT PERCENT
PHI SIZE

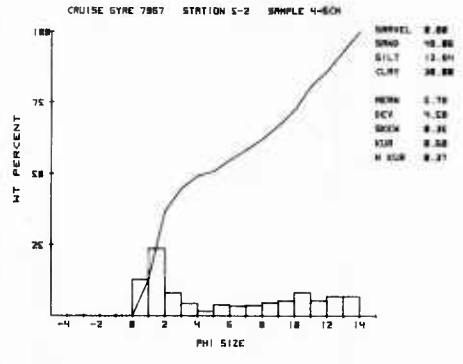

CRUISE GYRE 7967 STATION S-2 SAMPLE 10-12CM
WT PERCENT
PHI SIZE

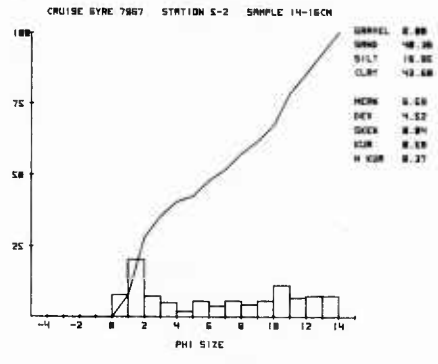

CRUISE GYRE 7967 STATION S-2
WT PERCENT
PHI SIZE

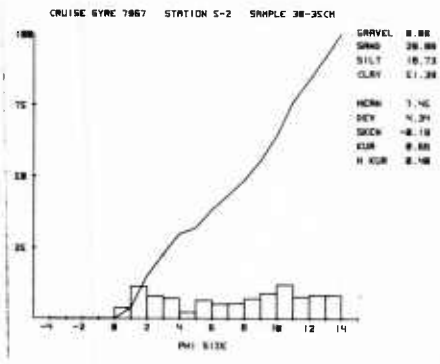

CRUISE GYRE 7967 STATION S-2 SAMPLE 2-4CM
GRAVEL 0.00
SAND 53.41
SILT 9.78
CLAY 35.31
MEAN 5.67
DEV 4.85
SKEW 0.00
KUR 0.50
H KUR 0.37
WT PERCENT
PHI SIZE

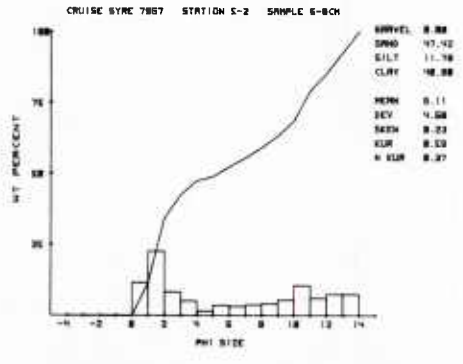

CRUISE GYRE 7967 STATION S-2 SAMPLE 12-14CM
WT PERCENT
PHI SIZE

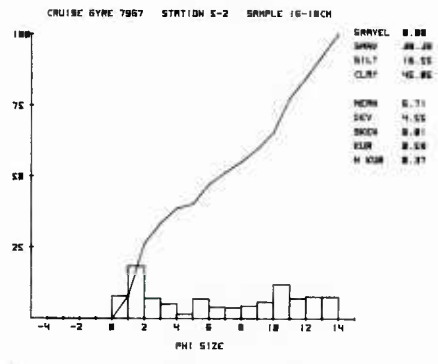

CRUISE GYRE 7967 STATION S-2
WT PERCENT
PHI SIZE

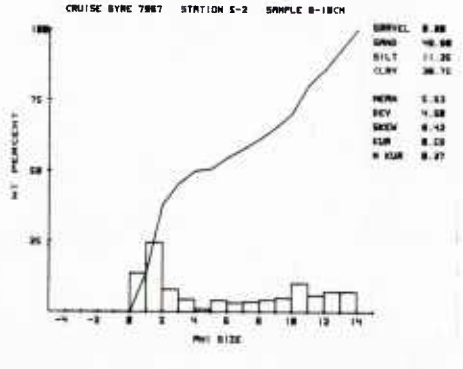

CRUISE GYRE 7967 STATION S-2 SAMPLE 4-6CM
WT PERCENT
PHI SIZE

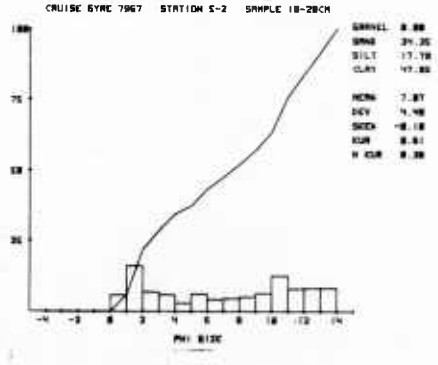

CRUISE GYRE 7967 STATION S-2 SAMPLE 14-16CM
WT PERCENT
PHI SIZE

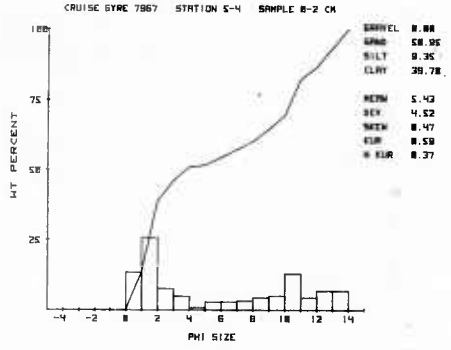

CRUISE GYRE 7967 STATION S-2 SAMPLE 30-35CM
WT PERCENT
PHI SIZE

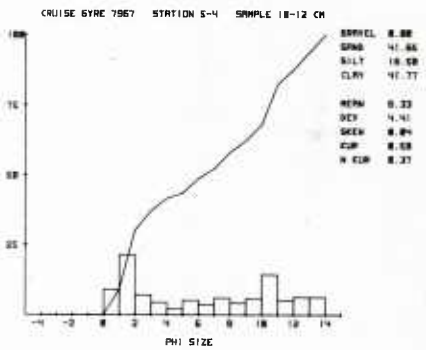

CRUISE GYRE 7967 STATION S-2 SAMPLE 6-8CM
WT PERCENT
PHI SIZE

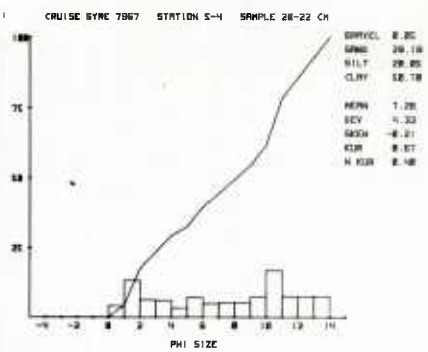

CRUISE GYRE 7967 STATION S-2 SAMPLE 16-18CM
WT PERCENT
PHI SIZE

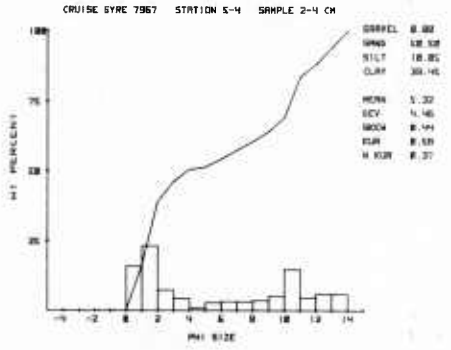

CRUISE GYRE 7967 STATION S-2 SAMPLE 8-10CM
WT PERCENT
PHI SIZE

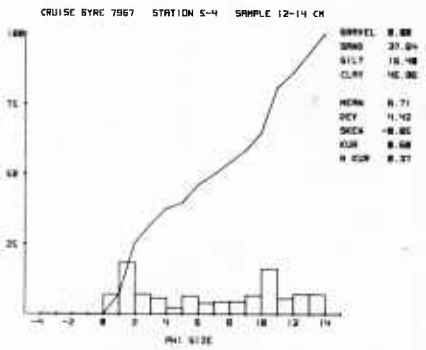

CRUISE GYRE 7967 STATION S-2 SAMPLE 18-20CM
WT PERCENT
PHI SIZE

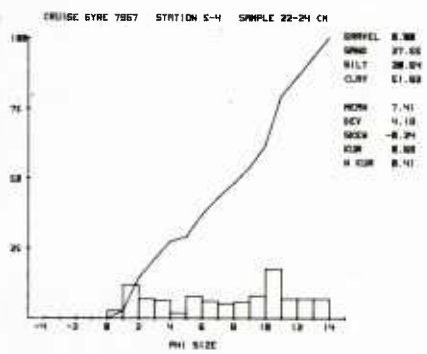

CRUISE GYRE 7967 STATION S-4 SAMPLE 0-2 CM
WT PERCENT
PHI SIZE

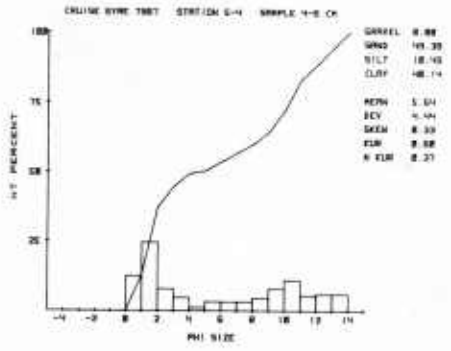

CRUISE GYRE 7967 STATION S-4 SAMPLE 10-12 CM
PHI SIZE

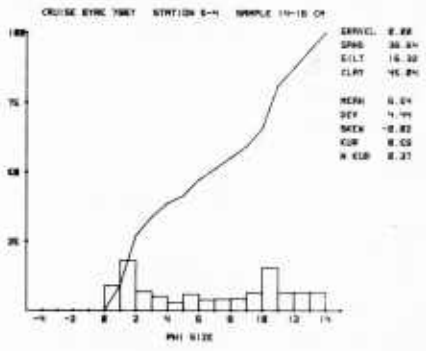

CRUISE GYRE 7967 STATION S-4 SAMPLE 20-22 CM
PHI SIZE


CRUISE GYRE 7967 STATION S-4 SAMPLE 2-4 CM
WT PERCENT
PHI SIZE


CRUISE GYRE 7967 STATION S-4 SAMPLE 12-14 CM
PHI SIZE


CRUISE GYRE 7967 STATION S-4 SAMPLE 22-24 CM
PHI SIZE


WT PERCENT
PHI SIZE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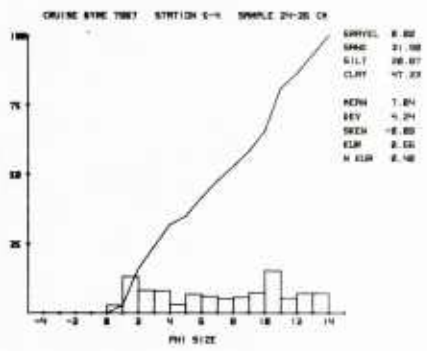
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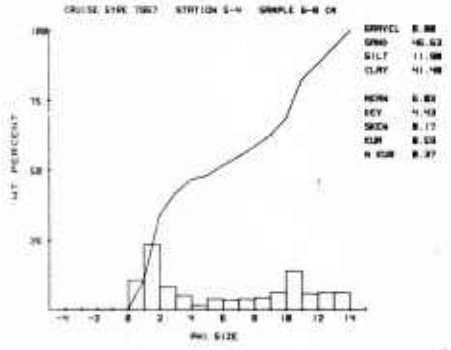
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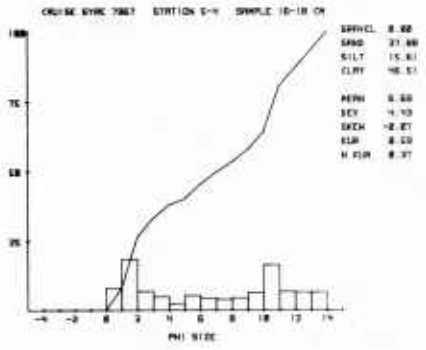
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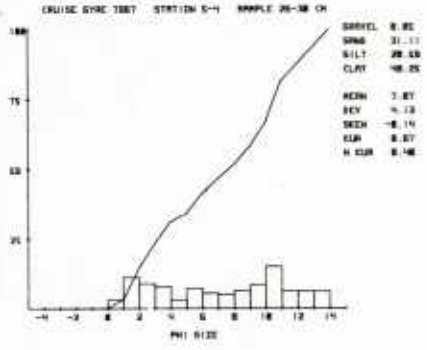
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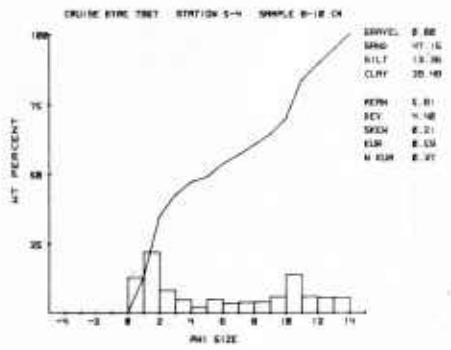
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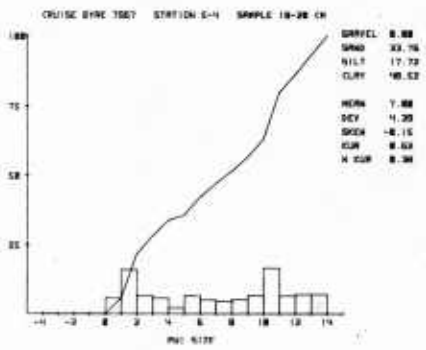

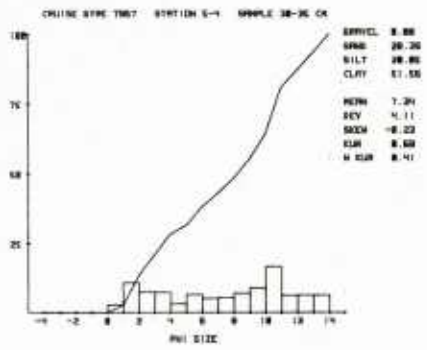
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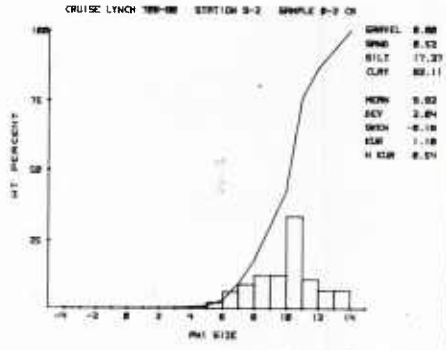
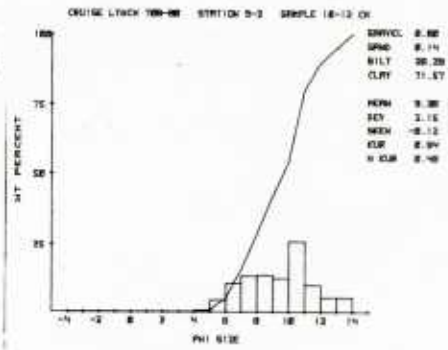
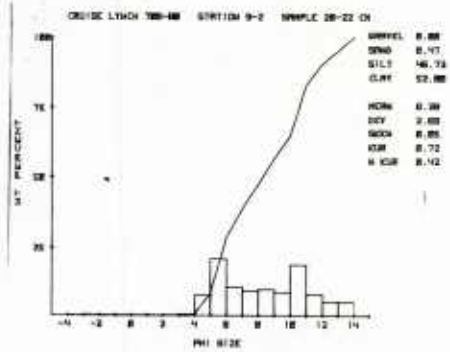
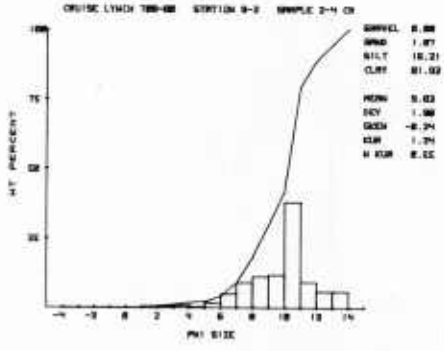
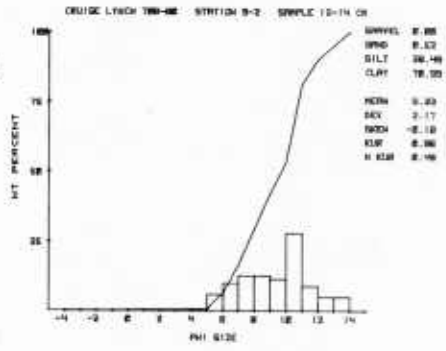
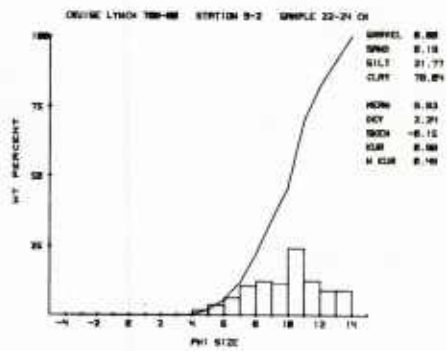


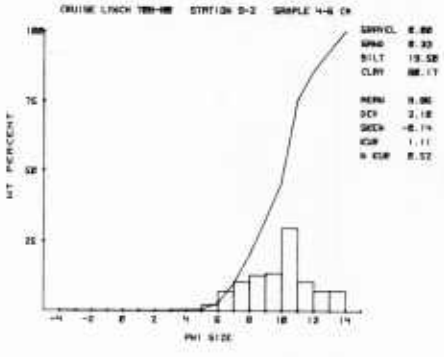


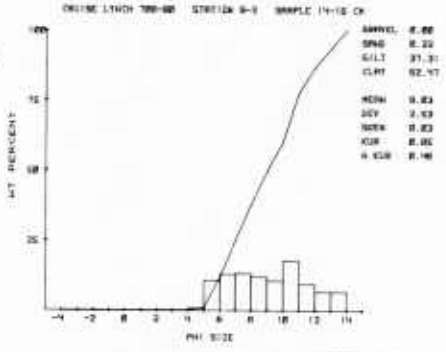


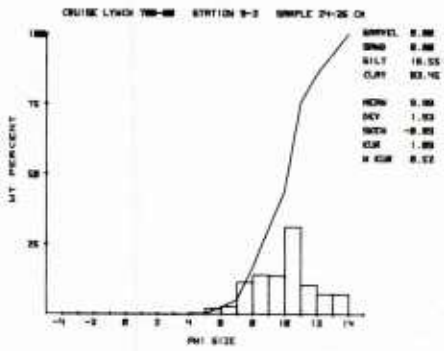


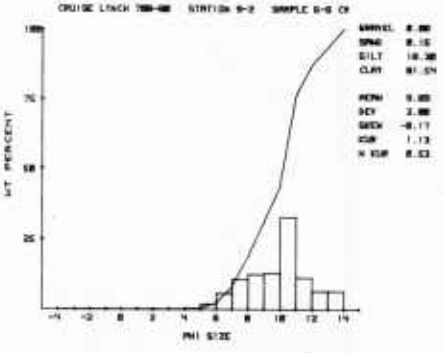


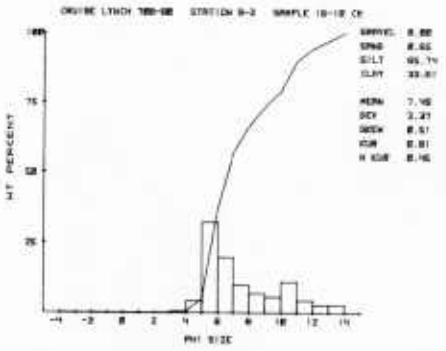


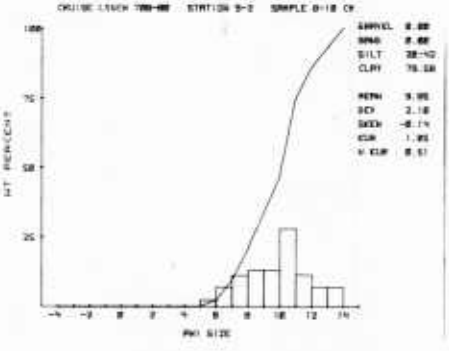


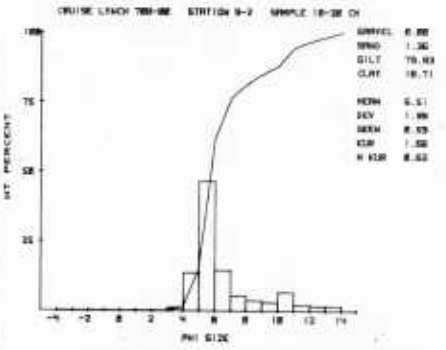


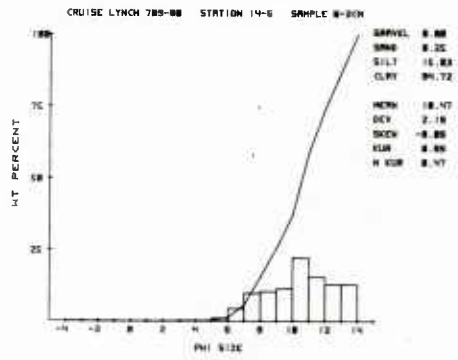


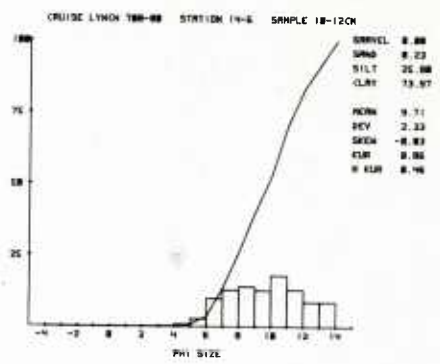


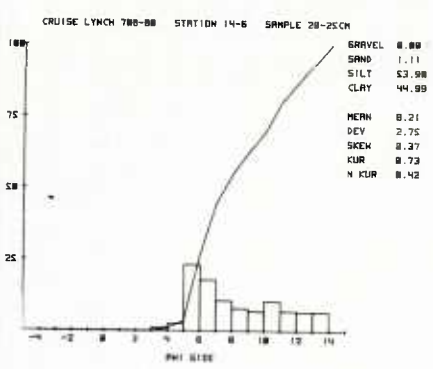


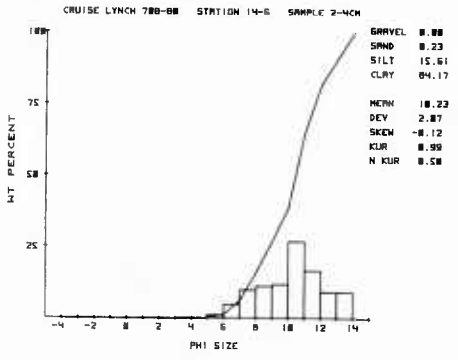


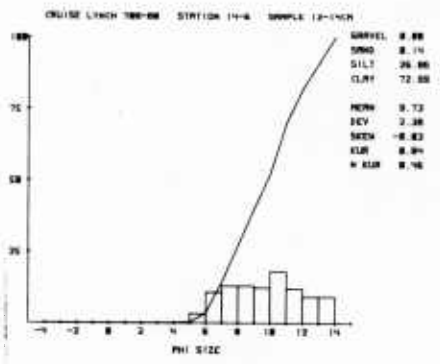


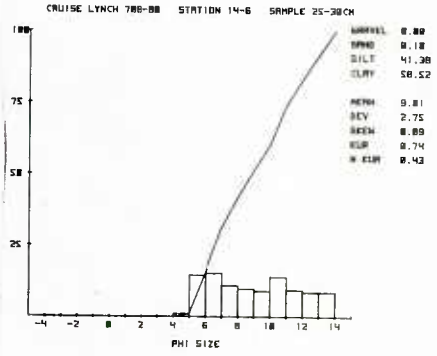

CRUISE LYNCH 788-88 STATION 14-6 SAMPLE 0-2CM
GRAVEL 0.00
SAND 0.25
SILT 15.03
CLAY 84.72
MEAN 10.47
DEV 2.10
SKEW -0.05
KUR 0.05
N KUR 0.47
WT PERCENT
PHI SIZE

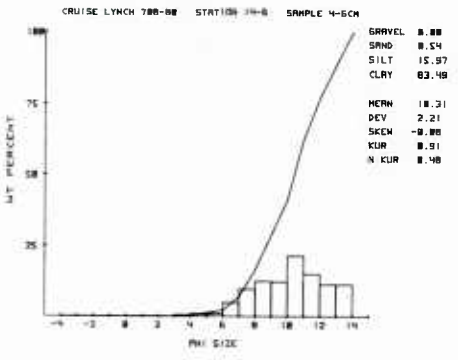

CRUISE LYNCH 788-88 STATION 14-6 SAMPLE 10-12CM
GRAVEL 0.00
SAND 0.23
SILT 26.00
CLAY 73.97
MEAN 9.71
DEV 2.33
SKEW -0.03
KUR 0.06
N KUR 0.46
PHI SIZE

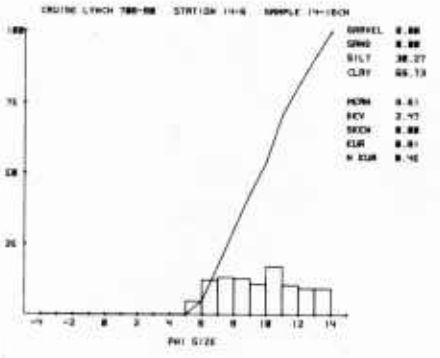

CRUISE LYNCH 788-88 STATION 14-6 SAMPLE 20-25CM
GRAVEL 0.00
SAND 1.11
SILT 53.90
CLAY 44.99
MEAN 8.21
DEV 2.75
SKEW 0.37
KUR 0.73
N KUR 0.42
PHI SIZE

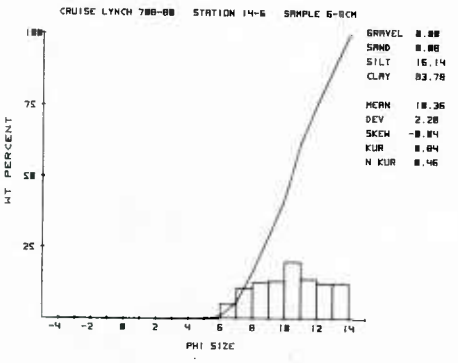

CRUISE LYNCH 788-88 STATION 14-6 SAMPLE 2-4CM
GRAVEL 0.00
SAND 0.23
SILT 15.61
CLAY 84.17
MEAN 10.23
DEV 2.07
SKEW -0.12
KUR 0.09
N KUR 0.50
WT PERCENT
PHI SIZE

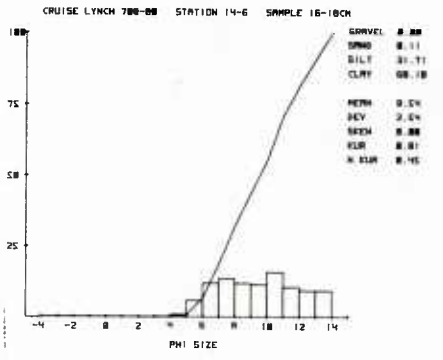

CRUISE LYNCH 788-88 STATION 14-6 SAMPLE 12-14CM
GRAVEL 0.00
SAND 0.14
SILT 26.86
CLAY 72.99
MEAN 9.73
DEV 2.38
SKEW -0.03
KUR 0.04
N KUR 0.46
PHI SIZE

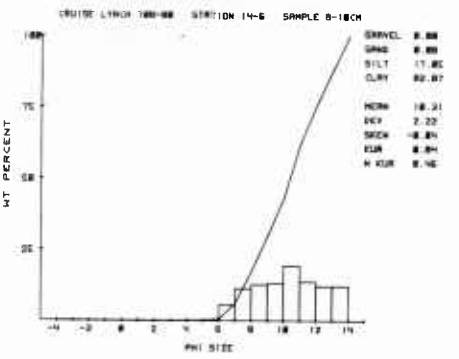

CRUISE LYNCH 788-88 STATION 14-6 SAMPLE 25-30CM
GRAVEL 0.00
SAND 0.18
SILT 41.30
CLAY 58.52
MEAN 9.01
DEV 2.75
SKEW 0.09
KUR 0.74
N KUR 0.43
PHI SIZE

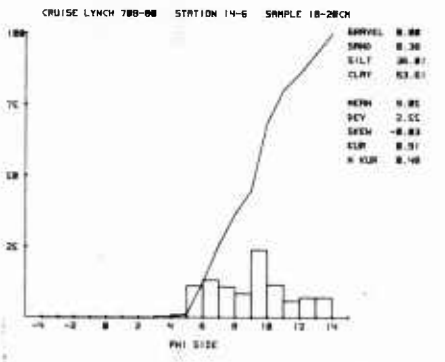

CRUISE LYNCH 788-88 STATION 14-6 SAMPLE 4-6CM
GRAVEL 0.00
SAND 0.54
SILT 15.97
CLAY 83.48
MEAN 10.31
DEV 2.21
SKEW -0.08
KUR 0.01
N KUR 0.48
WT PERCENT
PHI SIZE

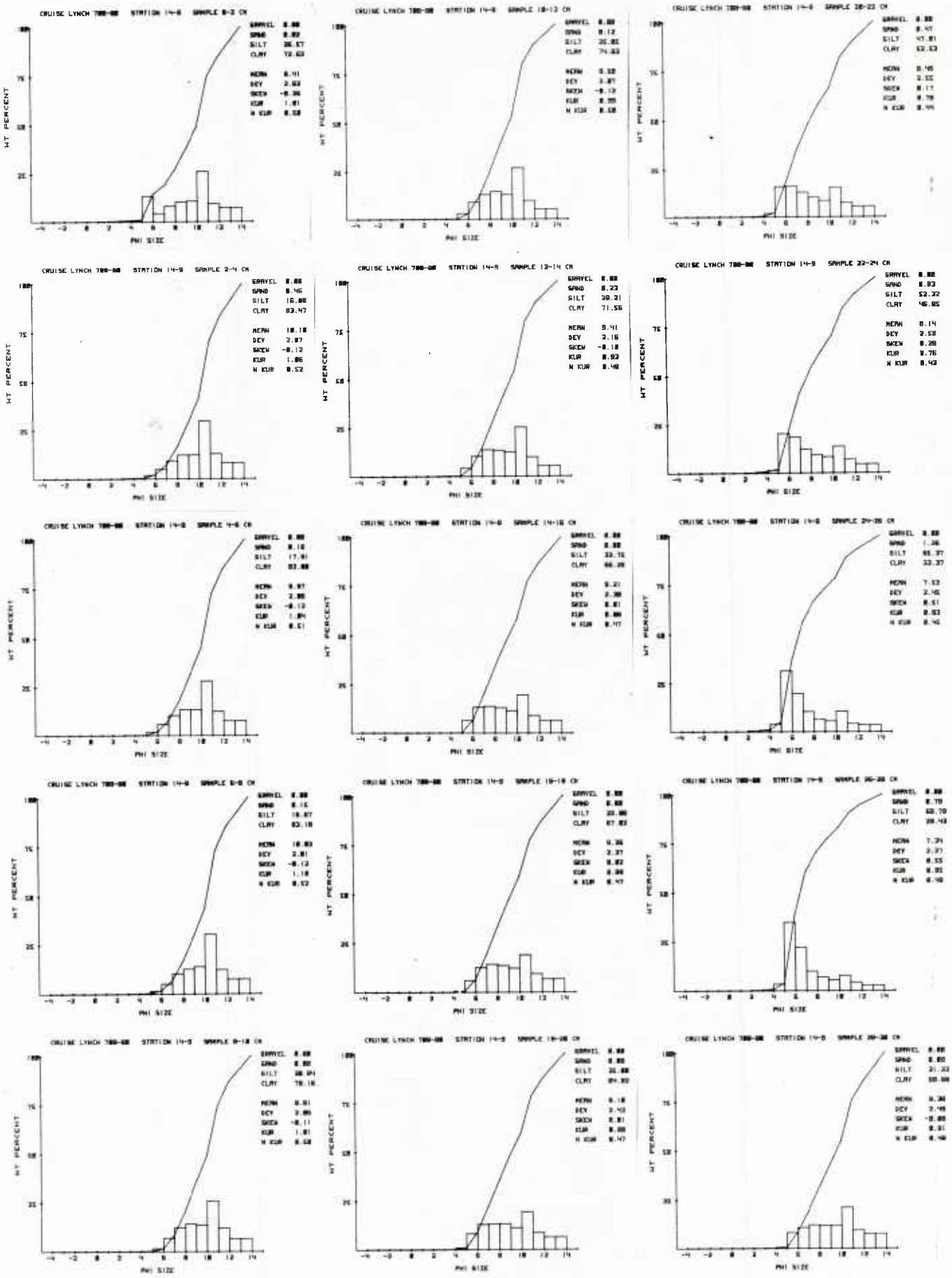

CRUISE LYNCH 788-88 STATION 14-6 SAMPLE 14-16CM
GRAVEL 0.00
SAND 0.00
SILT 30.27
CLAY 69.73
MEAN 9.61
DEV 2.47
SKEW 0.00
KUR 0.01
N KUR 0.46
PHI SIZE

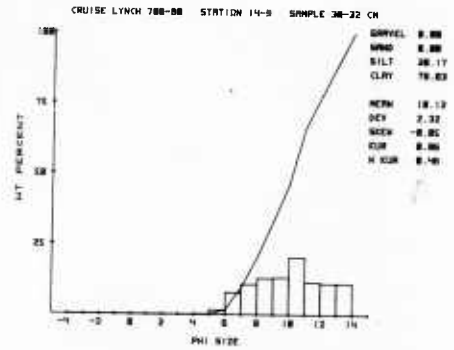

CRUISE LYNCH 788-88 STATION 14-6 SAMPLE 6-8CM
GRAVEL 0.00
SAND 0.00
SILT 16.14
CLAY 83.78
MEAN 10.36
DEV 2.28
SKEW -0.04
KUR 0.04
N KUR 0.46
WT PERCENT
PHI SIZE

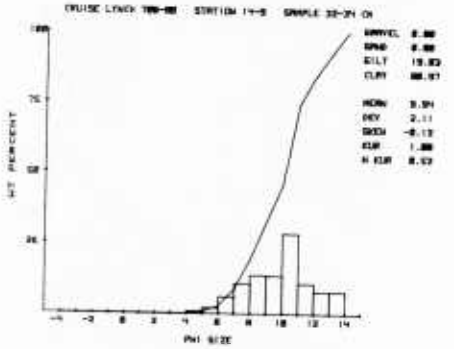

CRUISE LYNCH 788-88 STATION 14-6 SAMPLE 16-18CM
GRAVEL 0.00
SAND 0.11
SILT 31.71
CLAY 68.18
MEAN 9.54
DEV 2.64
SKEW 0.00
KUR 0.01
N KUR 0.45
PHI SIZE

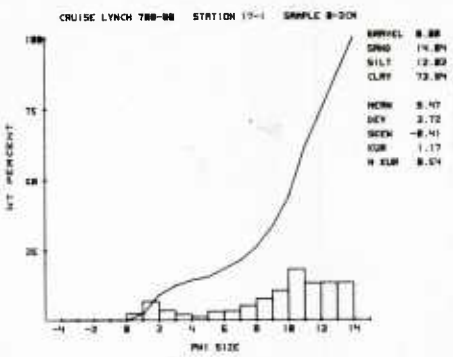

CRUISE LYNCH 788-88 STATION 14-6 SAMPLE 8-10CM
GRAVEL 0.00
SAND 0.00
SILT 17.82
CLAY 82.07
MEAN 10.21
DEV 2.22
SKEW -0.04
KUR 0.04
N KUR 0.46
WT PERCENT
PHI SIZE

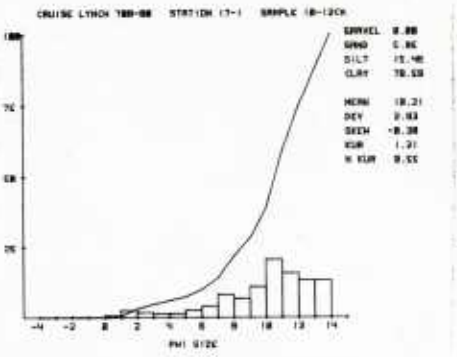

CRUISE LYNCH 788-88 STATION 14-6 SAMPLE 18-20CM
GRAVEL 0.00
SAND 0.30
SILT 36.81
CLAY 63.01
MEAN 9.05
DEV 2.55
SKEW -0.03
KUR 0.51
N KUR 0.48
PHI SIZE

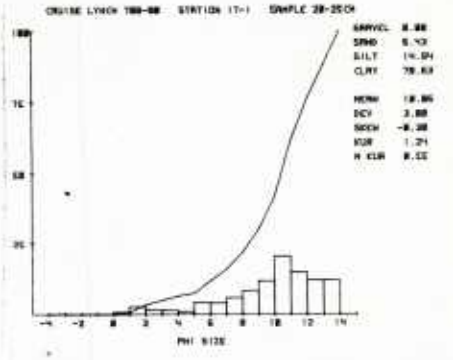


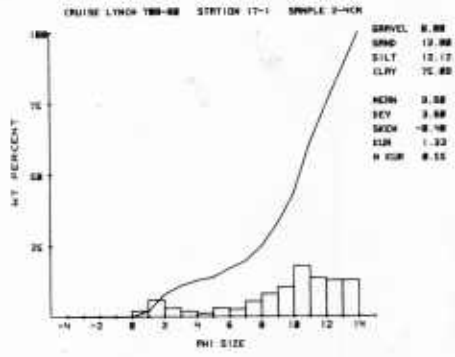

CRUISE LYNCH 788-88 STATION 14-9 SAMPLE 30-32 CM
WT PERCENT
PHI SIZE

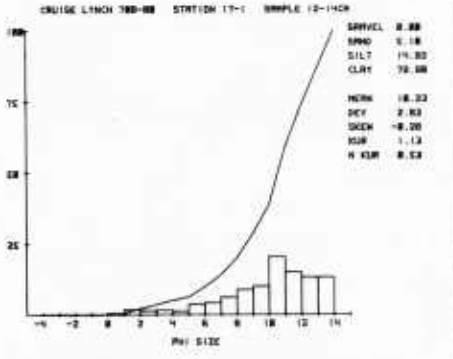

WT PERCENT
PHI SIZE

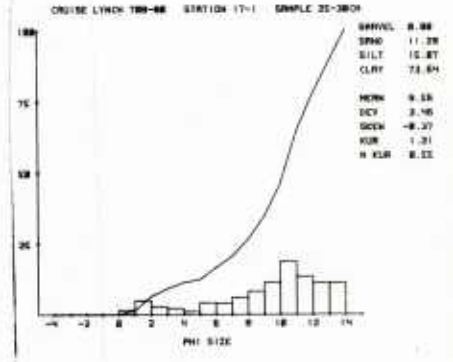


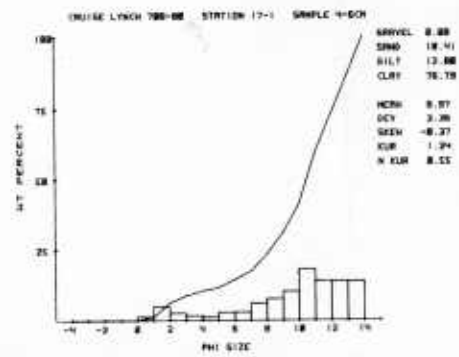


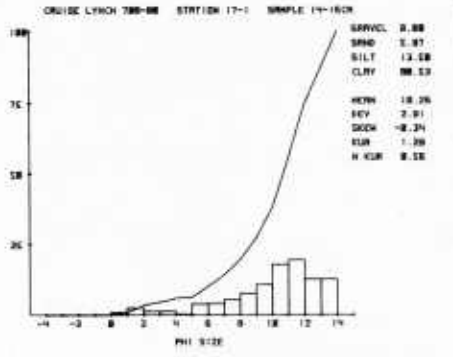


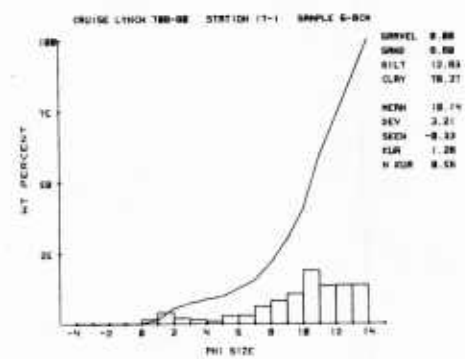


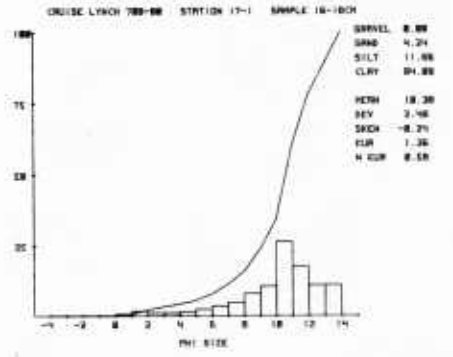


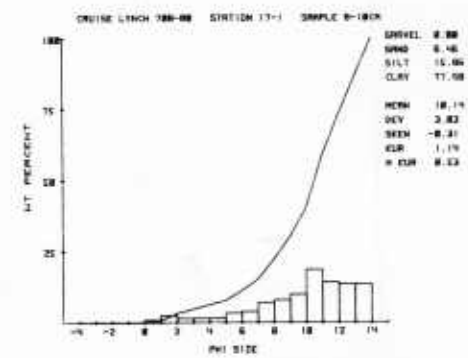


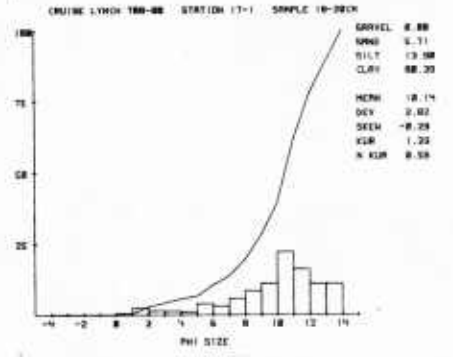


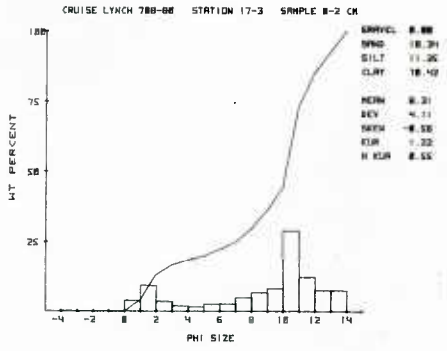


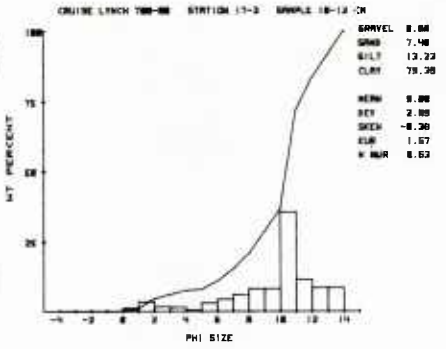


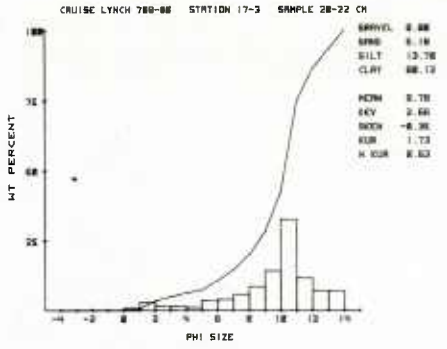


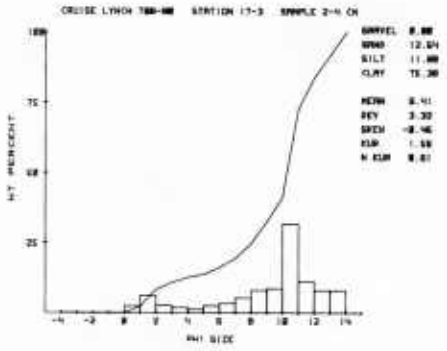


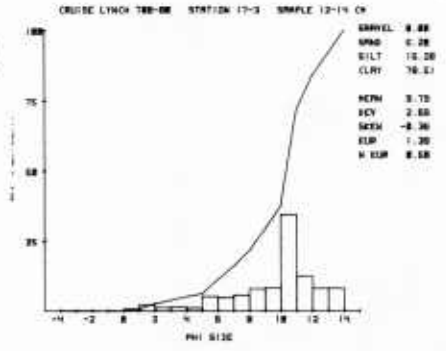


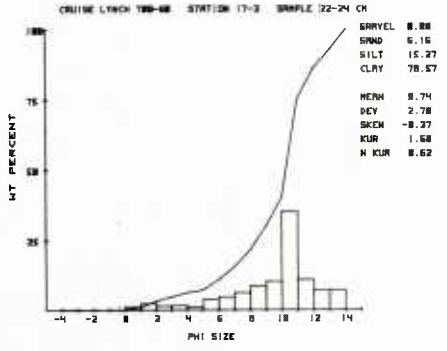

CRUISE LYNCH 788-88 STATION 17-3 SAMPLE 0-2 CM
WT PERCENT
PHI SIZE

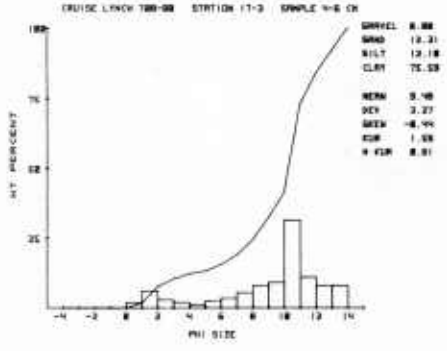

CRUISE LYNCH 788-88 STATION 17-3
WT PERCENT
PHI SIZE

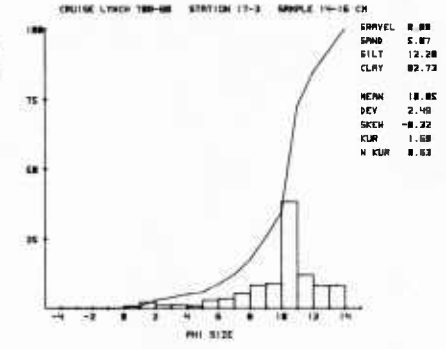

CRUISE LYNCH 788-88 STATION 17-3 SAMPLE 20-22 CM
WT PERCENT
PHI SIZE

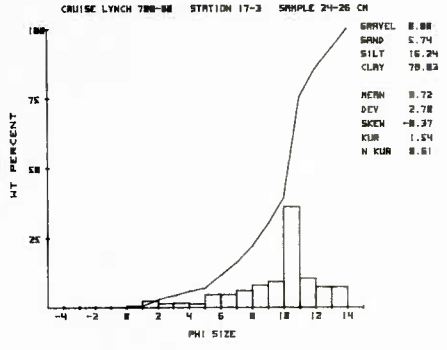

WT PERCENT
PHI SIZE

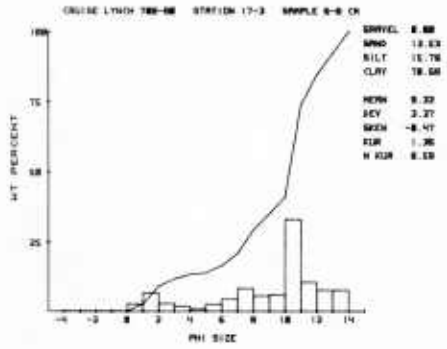

WT PERCENT
PHI SIZE

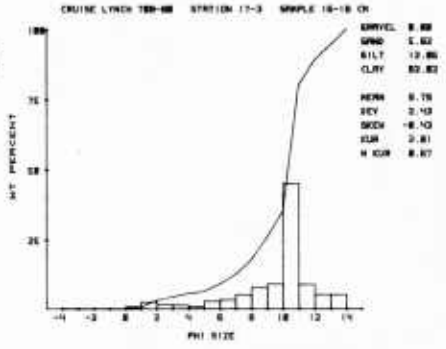

CRUISE LYNCH 788-88 STATION 17-3 SAMPLE 22-24 CM
GRAVEL 0.00
SAND 6.16
SILT 15.27
CLAY 78.57
MEAN 8.74
DEV 2.78
SKEW -0.37
KUR 1.68
N KUR 0.62
WT PERCENT
PHI SIZE

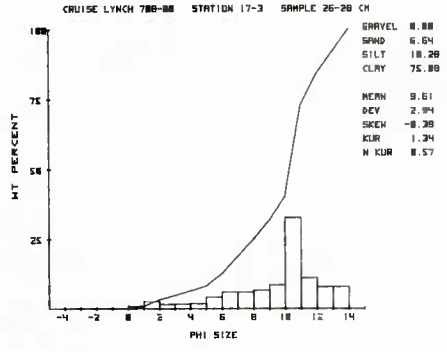

WT PERCENT
PHI SIZE

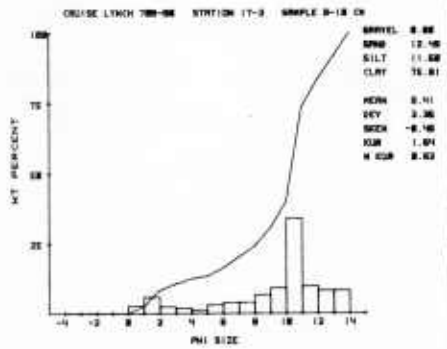

WT PERCENT
PHI SIZE

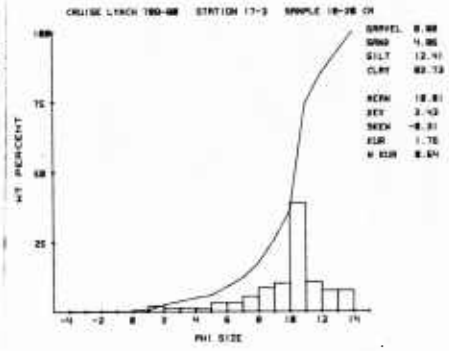

CRUISE LYNCH 788-88 STATION 17-3 SAMPLE 24-26 CM
GRAVEL 0.00
SAND 5.74
SILT 16.24
CLAY 78.03
MEAN 8.72
DEV 2.78
SKEW -0.37
KUR 1.64
N KUR 0.61
WT PERCENT
PHI SIZE

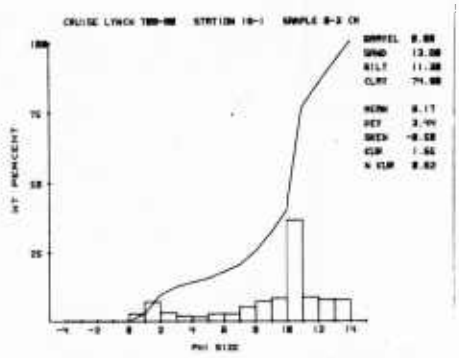

WT PERCENT
PHI SIZE

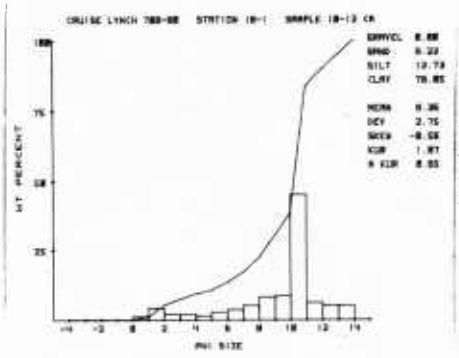

WT PERCENT
PHI SIZE

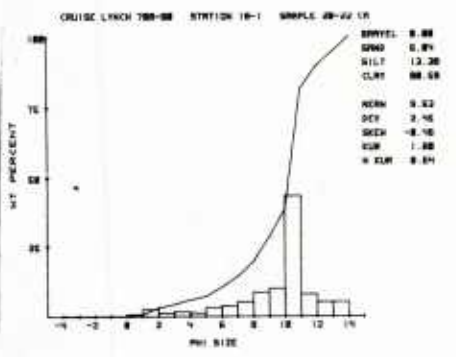

CRUISE LYNCH 788-88 STATION 17-3 SAMPLE 26-28 CM
GRAVEL 0.00
SAND 6.64
SILT 18.28
CLAY 75.08
MEAN 8.61
DEV 2.94
SKEW -0.38
KUR 1.34
N KUR 0.57
WT PERCENT
PHI SIZE

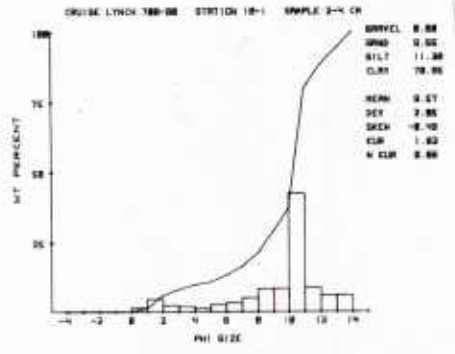

WT PERCENT
PHI SIZE

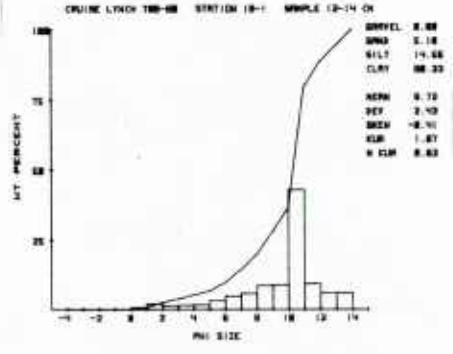

WT PERCENT
PHI SIZE

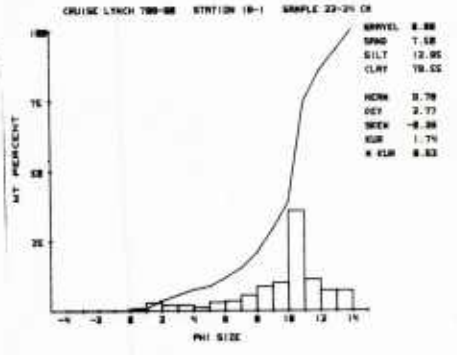


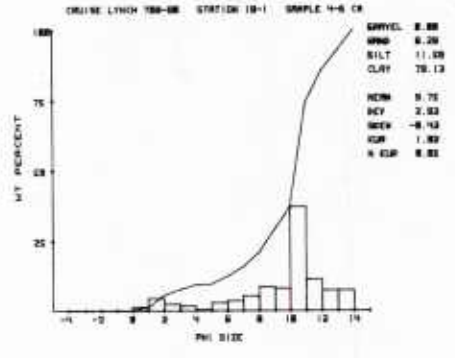


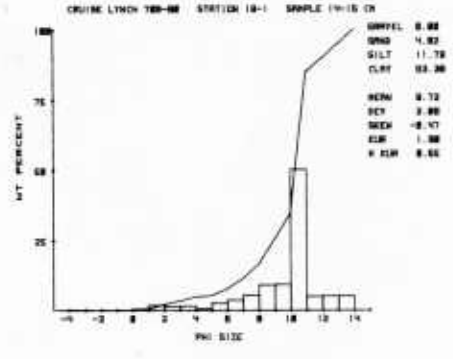


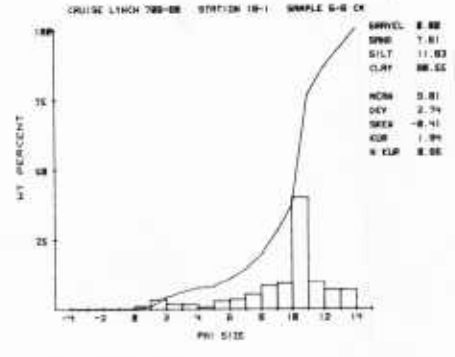


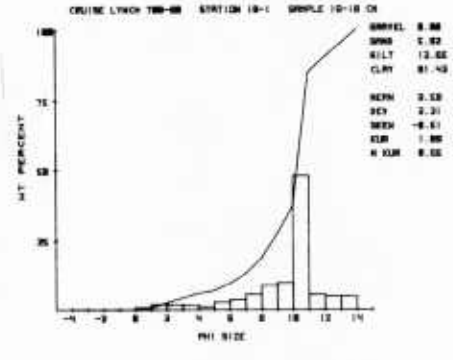


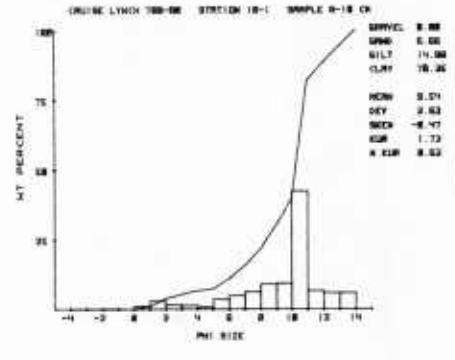


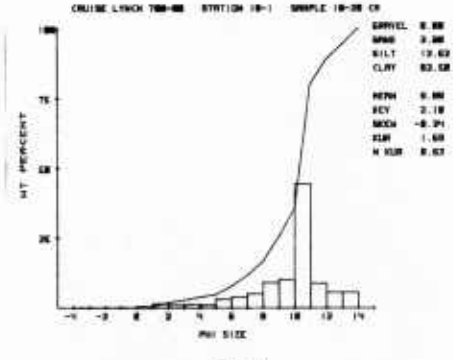


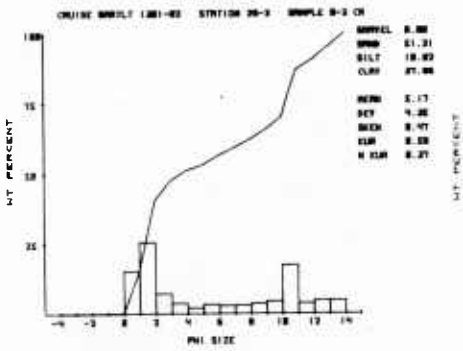


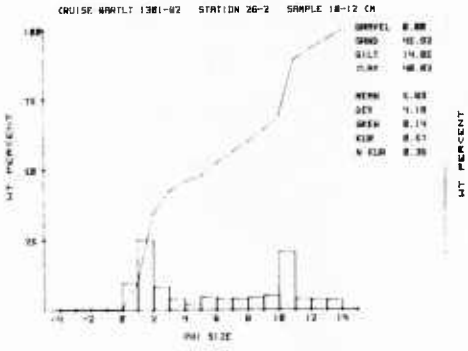


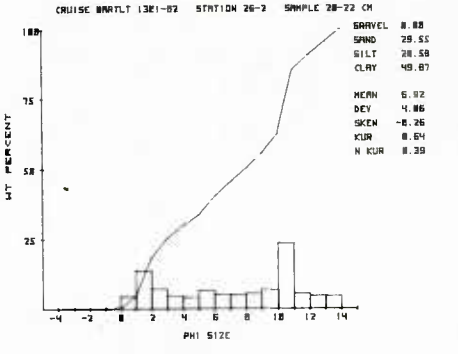


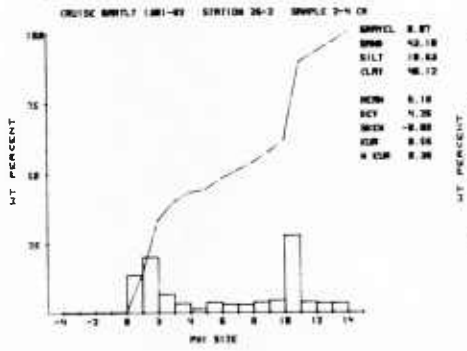


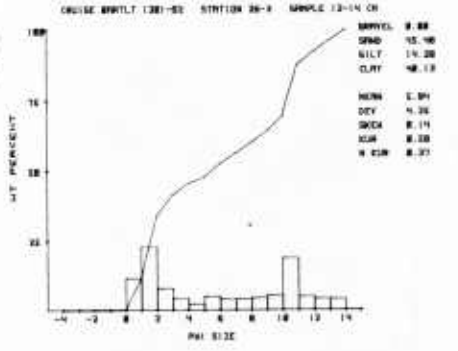


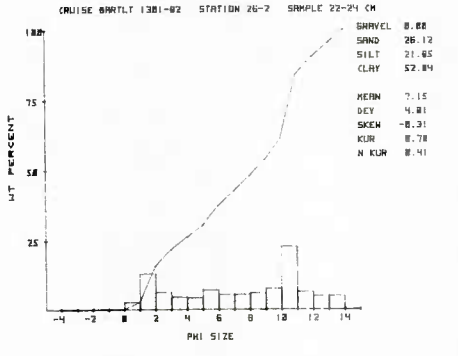

CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 0-2 CM
GRAVEL 0.00
SAND 61.31
SILT 18.89
CLAY 19.80
MEAN 5.17
DEV 4.26
SKEW 0.47
KUR 0.59
N KUR 0.37
WT PERCENT
PHI SIZE

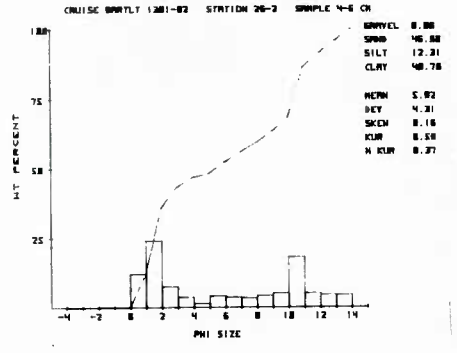

CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 10-12 CM
GRAVEL 0.00
SAND 48.93
SILT 14.86
CLAY 36.20
MEAN 5.83
DEV 4.18
SKEW 0.14
KUR 0.61
N KUR 0.35
WT PERCENT
PHI SIZE

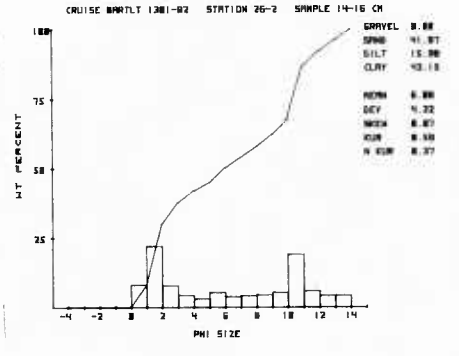

CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 20-22 CM
GRAVEL 0.00
SAND 29.55
SILT 20.58
CLAY 49.87
MEAN 6.92
DEV 4.06
SKEW -0.26
KUR 0.64
N KUR 0.39
WT PERCENT
PHI SIZE

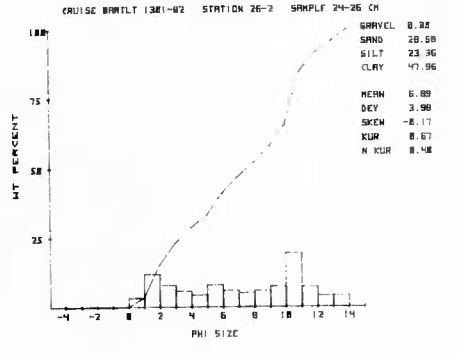

CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 2-4 CM
GRAVEL 0.00
SAND 43.10
SILT 18.69
CLAY 38.12
MEAN 5.10
DEV 4.26
SKEW -0.00
KUR 0.56
N KUR 0.36
WT PERCENT
PHI SIZE

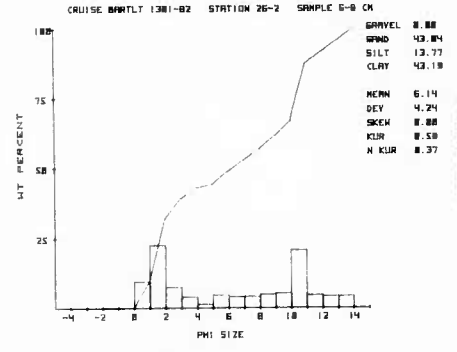

CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 12-14 CM
GRAVEL 0.00
SAND 45.48
SILT 14.28
CLAY 40.23
MEAN 5.84
DEV 4.36
SKEW 0.14
KUR 0.58
N KUR 0.37
WT PERCENT
PHI SIZE

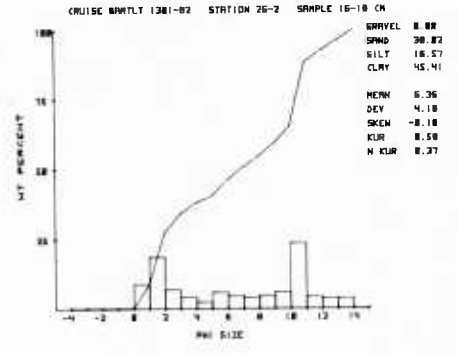

CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 22-24 CM
GRAVEL 0.00
SAND 26.12
SILT 21.05
CLAY 52.84
MEAN 7.15
DEV 4.01
SKEW -0.31
KUR 0.78
N KUR 0.41
WT PERCENT
PHI SIZE

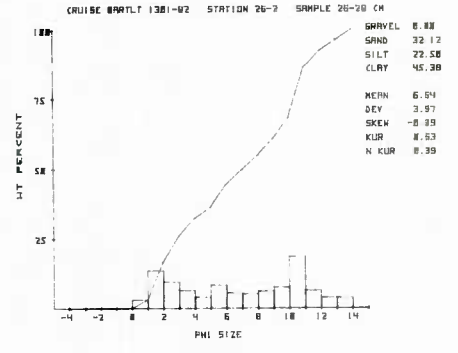

CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 4-6 CM
GRAVEL 0.00
SAND 46.88
SILT 12.31
CLAY 40.78
MEAN 5.92
DEV 4.31
SKEW 0.16
KUR 0.58
N KUR 0.37
WT PERCENT
PHI SIZE

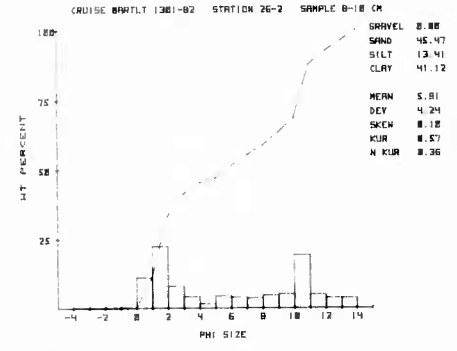

CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 14-16 CM
GRAVEL 0.00
SAND 41.87
SILT 15.00
CLAY 43.13
MEAN 6.00
DEV 4.22
SKEW 0.07
KUR 0.58
N KUR 0.37
WT PERCENT
PHI SIZE

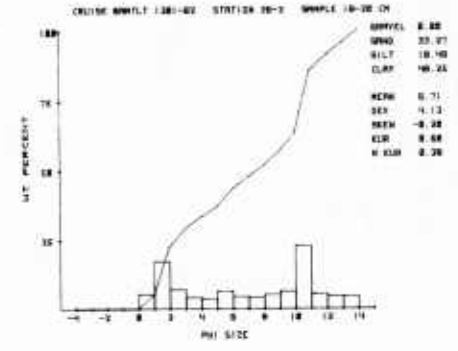

CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 24-26 CM
GRAVEL 0.00
SAND 28.58
SILT 23.46
CLAY 47.96
MEAN 6.89
DEV 3.98
SKEW -0.17
KUR 0.67
N KUR 0.40
WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 6-8 CM
GRAVEL 0.00
SAND 43.04
SILT 13.77
CLAY 43.19
MEAN 6.14
DEV 4.24
SKEW 0.08
KUR 0.58
N KUR 0.37
WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 16-18 CM
GRAVEL 0.00
SAND 38.82
SILT 16.57
CLAY 45.41
MEAN 6.36
DEV 4.18
SKEW -0.18
KUR 0.58
N KUR 0.37
WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 26-28 CM
GRAVEL 0.00
SAND 32.12
SILT 22.50
CLAY 45.38
MEAN 6.64
DEV 3.97
SKEW -0.09
KUR 0.63
N KUR 0.39
WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION 26-2 SAMPLE 8-10 CM
GRAVEL 0.00
SAND 45.47
SILT 13.41
CLAY 41.12
MEAN 5.81
DEV 4.24
SKEW 0.12
KUR 0.57
N KUR 0.36
WT PERCENT
PHI SIZE


WT PERCENT
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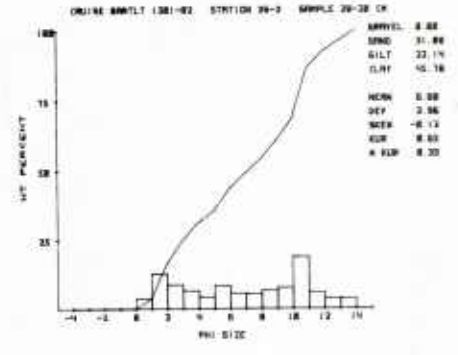
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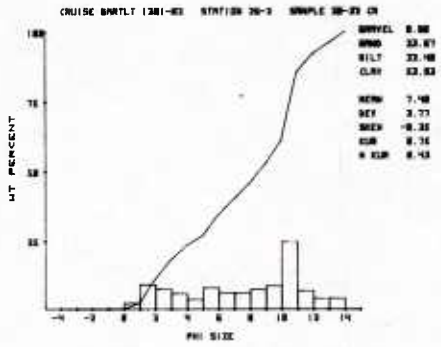
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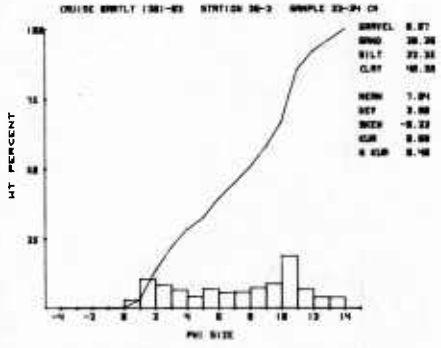
WT PERCENT
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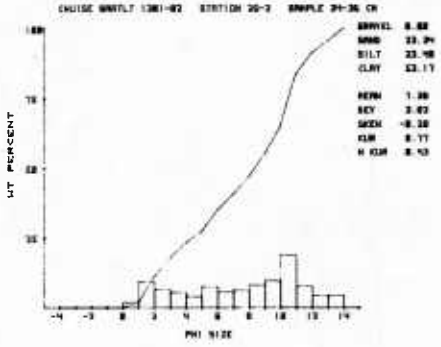
WT PERCENT
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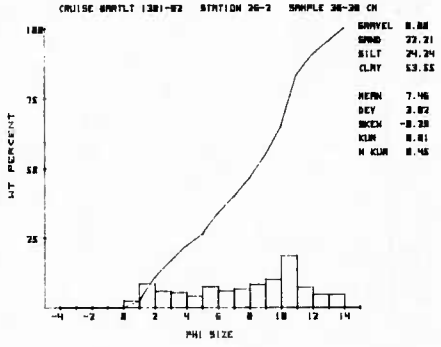
WT PERCENT
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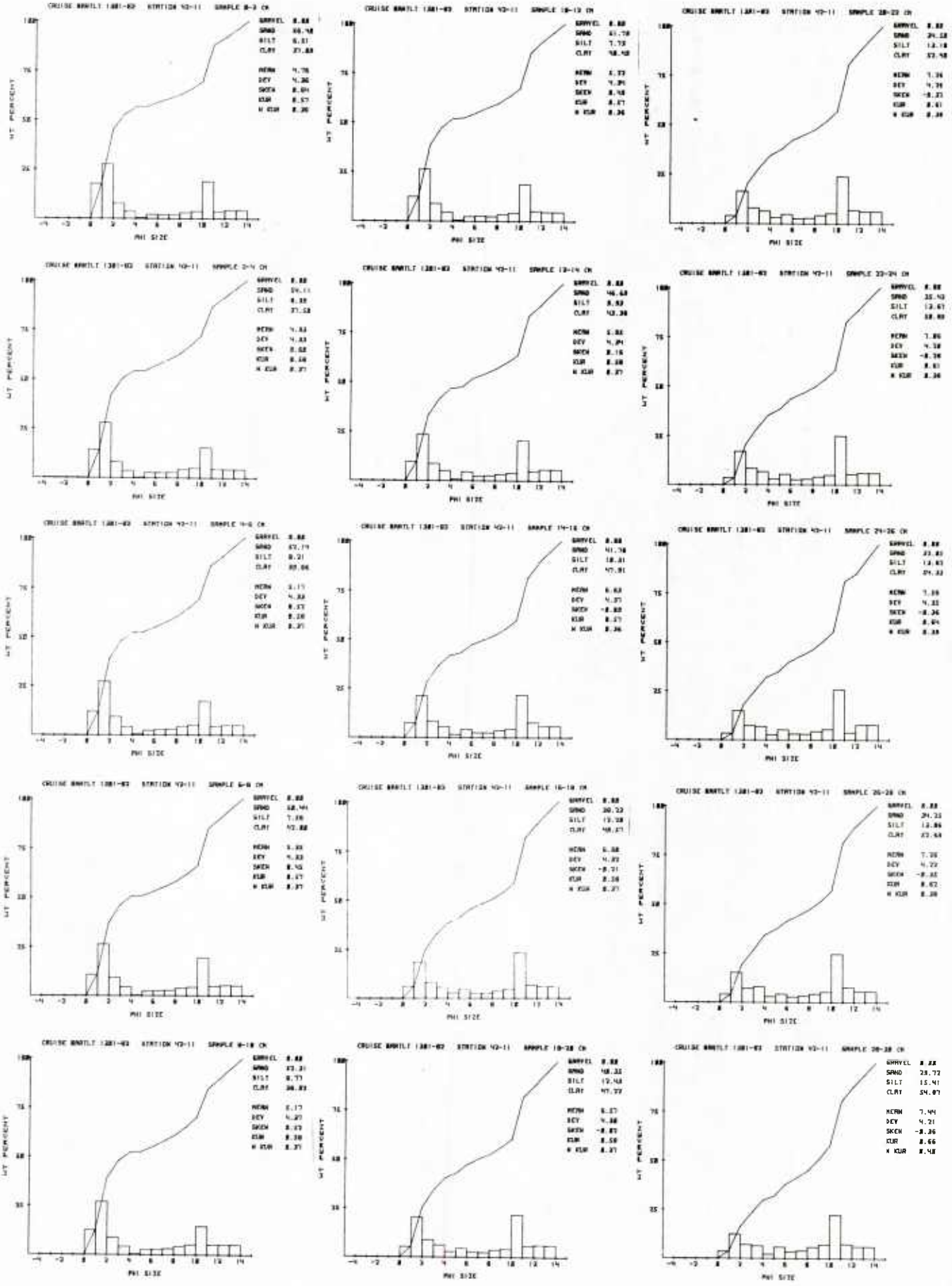
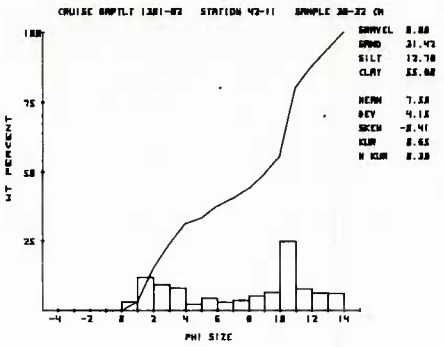
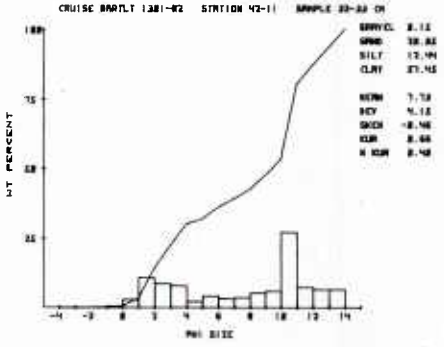
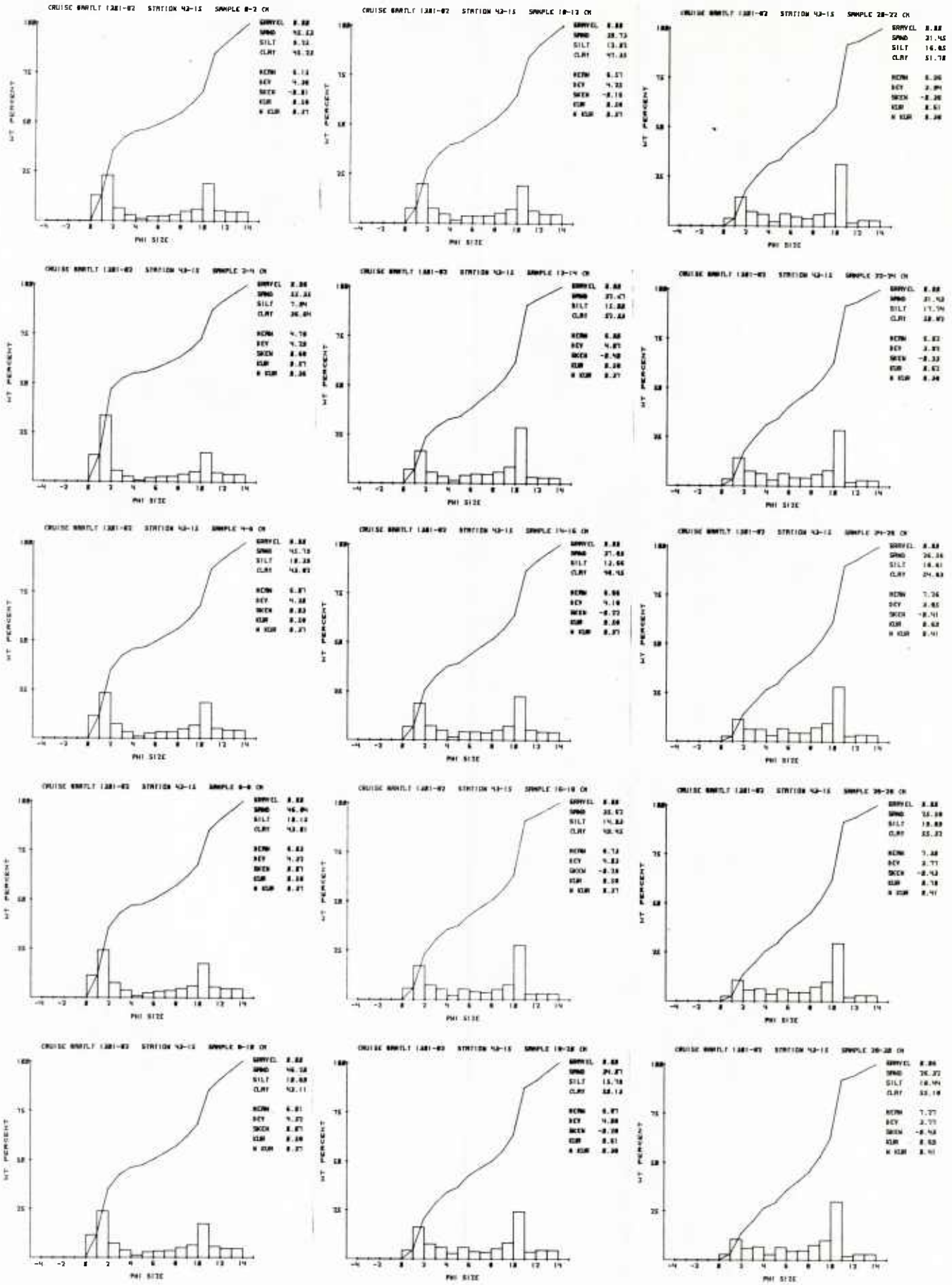
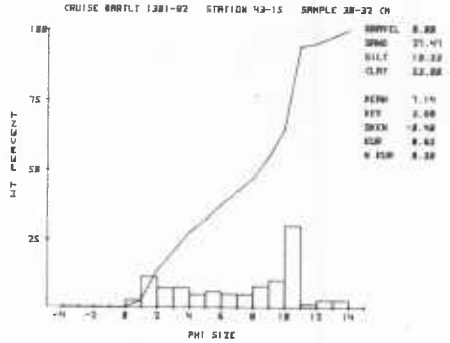
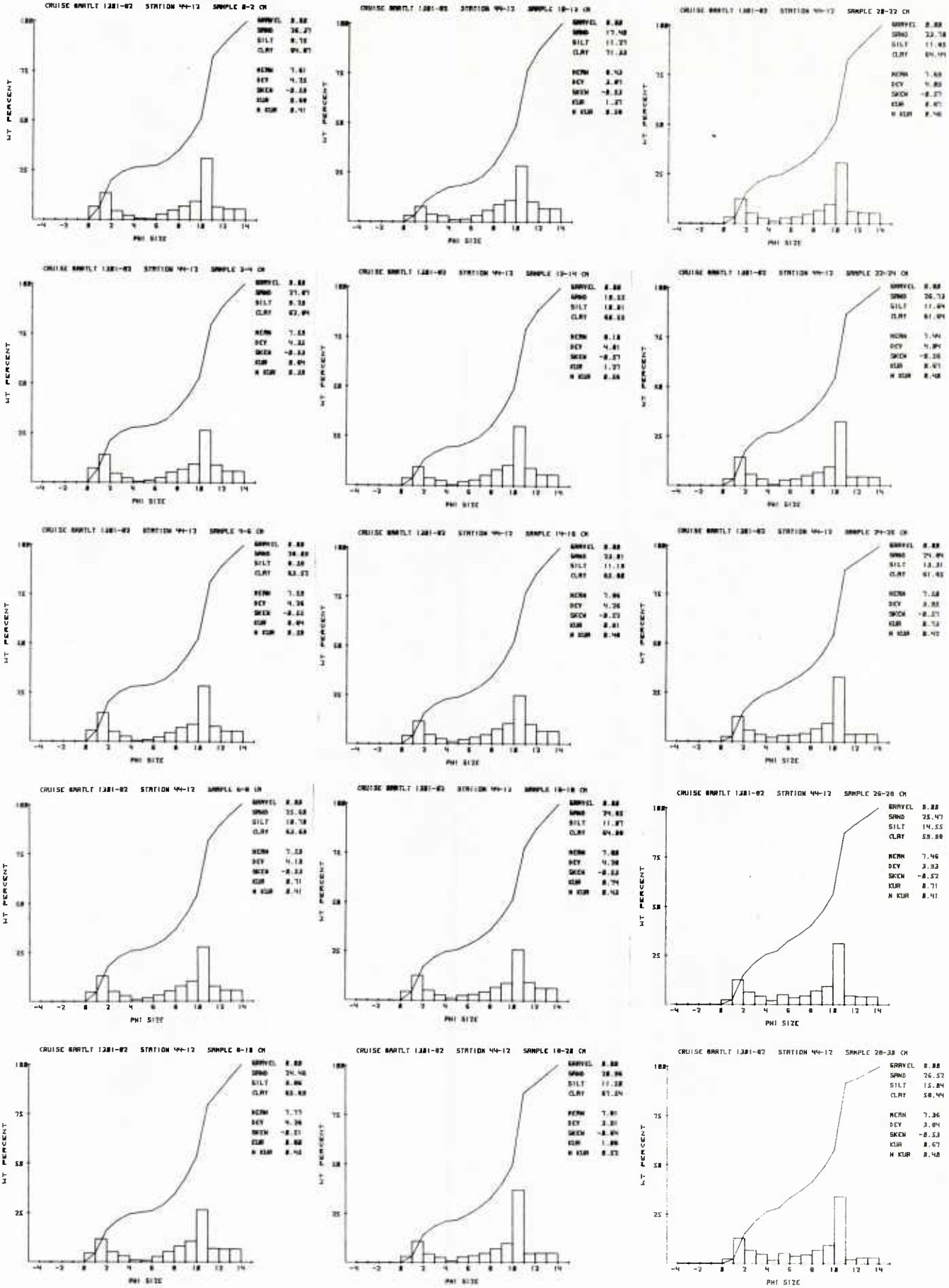


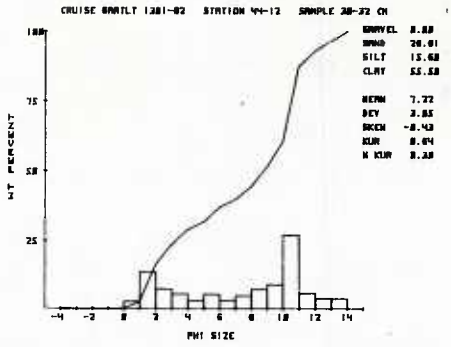

CRUISE BARTLT 1381-82 STATION 42-11 SAMPLE 30-32 CM
GRAVEL 0.00
GRAD 31.42
SILT 12.78
CLAY 55.80
MEAN 7.58
DEV 4.15
SKEW -0.41
KUR 0.65
N KUR 0.38
WT PERCENT
100
75
50
25
-4 -2 0 2 4 6 8 10 12 14
PHI SIZE

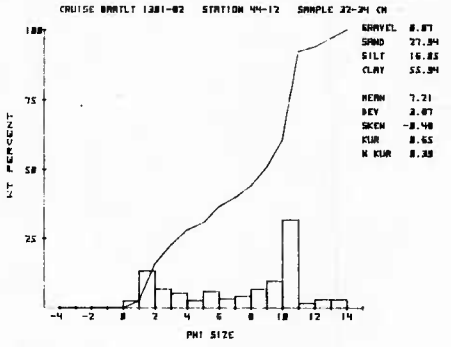

CRUISE BARTLT 1381-82 STATION 42-11 SAMPLE 33-34 CM
GRAVEL 0.13
GRAD 38.84
SILT 13.94
CLAY 37.45
MEAN 7.73
DEV 4.13
SKEW -0.46
KUR 0.66
N KUR 0.48
WT PERCENT
100
75
50
25
-4 -2 0 2 4 6 8 10 12 14
PHI SIZE

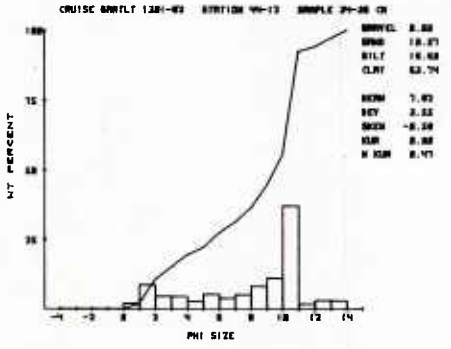



CRUISE BARTLT 1381-82 STATION 43-15 SAMPLE 30-32 CM
100
75
50
25
WT PERCENT
PHI SIZE


WT PERCENT
PHI SIZE


CRUISE BRATLT 1381-82 STATION 44-12 SAMPLE 28-32 CM
GRAVEL 0.88
SAND 20.01
SILT 15.68
CLAY 55.58
MEAN 7.72
DEV 3.85
SKEW -0.43
KUR 0.84
W KUR 0.38
WT PERCENT
PHI SIZE


CRUISE BRATLT 1381-82 STATION 44-12 SAMPLE 32-34 CM
GRAVEL 0.87
SAND 27.34
SILT 16.83
CLAY 55.34
MEAN 7.21
DEV 3.87
SKEW -0.40
KUR 0.65
W KUR 0.38
WT PERCENT
PHI SIZE


WT PERCENT
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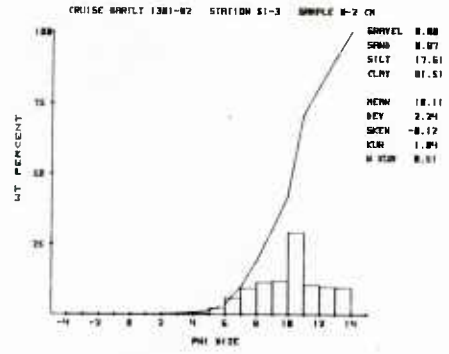
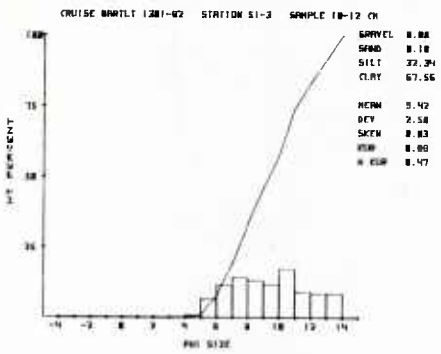
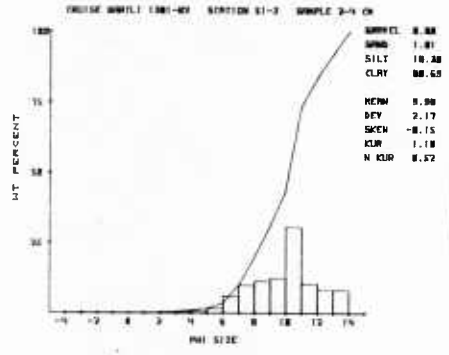
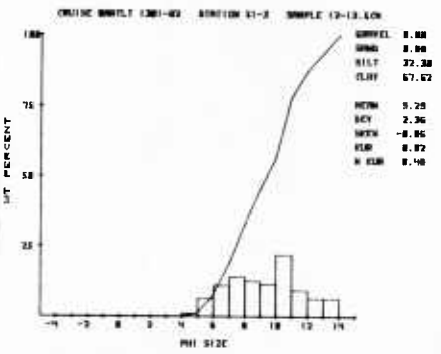
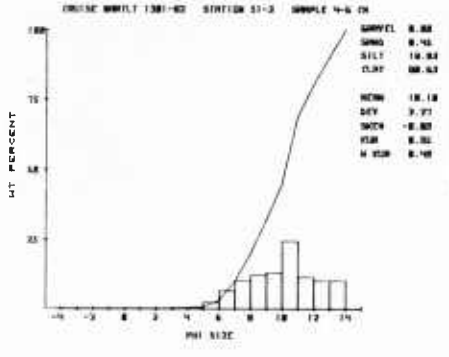
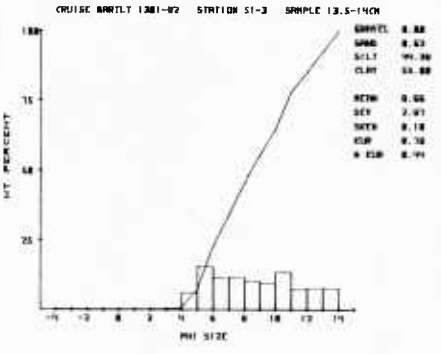

CRUISE BARTLT 1381-82 STATION S1-3 SAMPLE 0-2 CM
GRAVEL 0.00
SAND 0.07
SILT 17.61
CLAY 81.51
MEAN 10.11
DEV 2.24
SKEW -0.12
KUR 1.04
N KUR 0.51
WT PERCENT
PHI SIZE

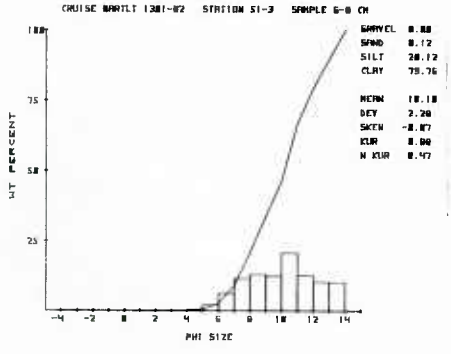

CRUISE BARTLT 1381-82 STATION S1-3 SAMPLE 10-12 CM
GRAVEL 0.00
SAND 0.10
SILT 32.34
CLAY 67.56
MEAN 9.42
DEV 2.58
SKEW 0.03
KUR 0.00
N KUR 0.47
WT PERCENT
PHI SIZE

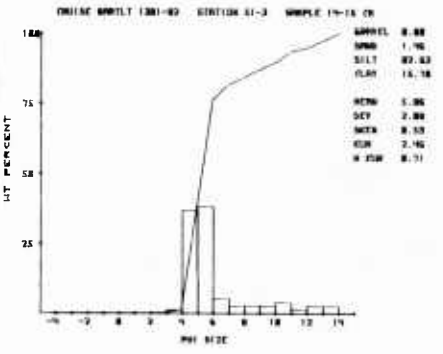

CRUISE BARTLT 1381-82 STATION S1-3 SAMPLE 2-4 CM
GRAVEL 0.00
SAND 1.01
SILT 10.30
CLAY 88.69
MEAN 9.90
DEV 2.17
SKEW -0.15
KUR 1.10
N KUR 0.52
WT PERCENT
PHI SIZE

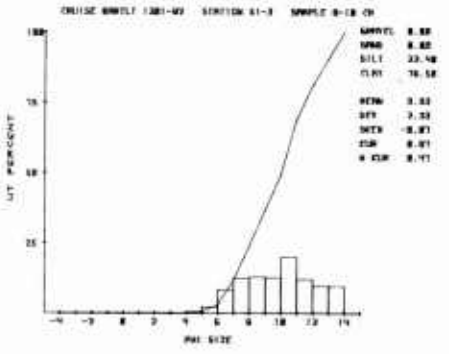

CRUISE BARTLT 1381-82 STATION S1-3 SAMPLE 12-13.5CM
GRAVEL 0.00
SAND 0.00
SILT 32.38
CLAY 67.62
MEAN 9.29
DEV 2.36
SKEW -0.06
KUR 0.02
N KUR 0.48
WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION S1-3 SAMPLE 4-6 CM
WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION S1-3 SAMPLE 13.5-14CM
WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION S1-3 SAMPLE 6-8 CM
GRAVEL 0.00
SAND 0.12
SILT 20.12
CLAY 79.76
MEAN 10.10
DEV 2.20
SKEW -0.07
KUR 0.00
N KUR 0.47
WT PERCENT
PHI SIZE


WT PERCENT
PHI SIZE


WT PERCENT
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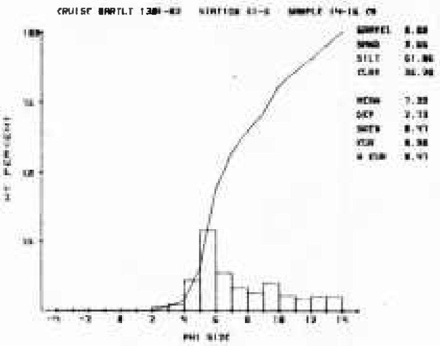
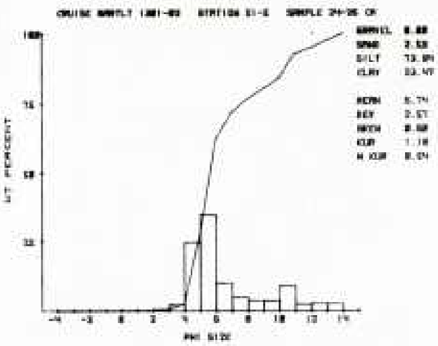
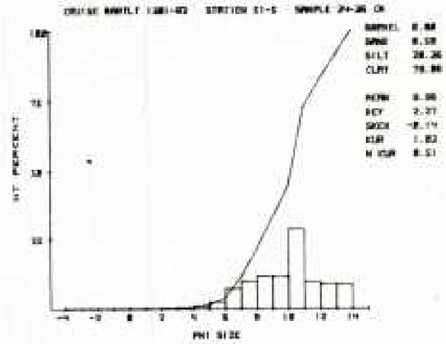
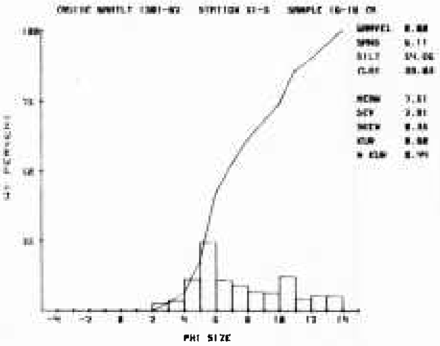
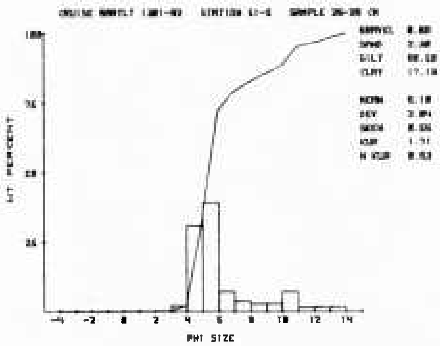
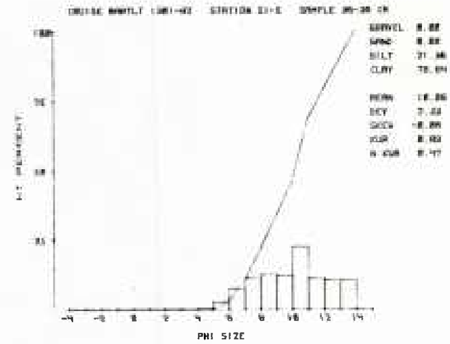


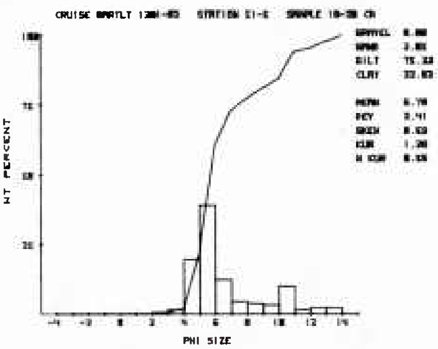


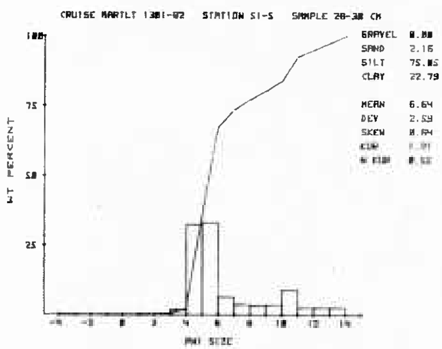


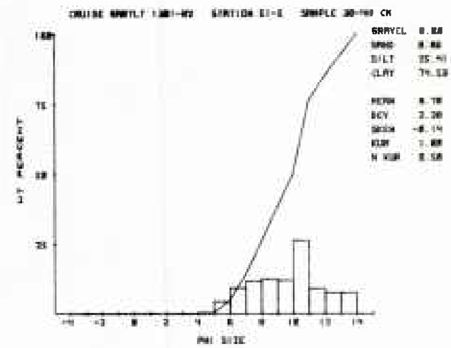


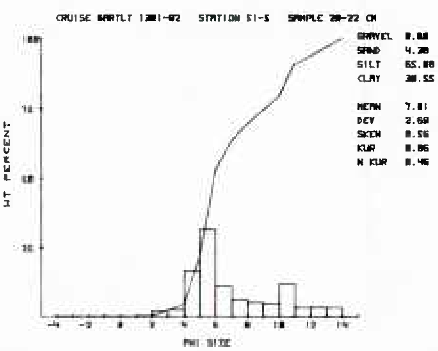


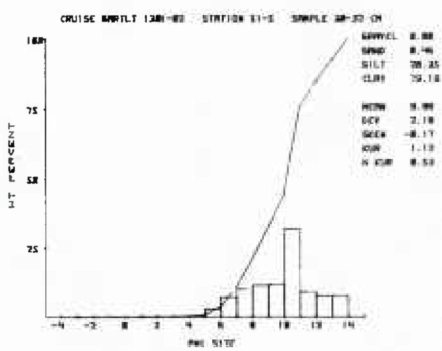


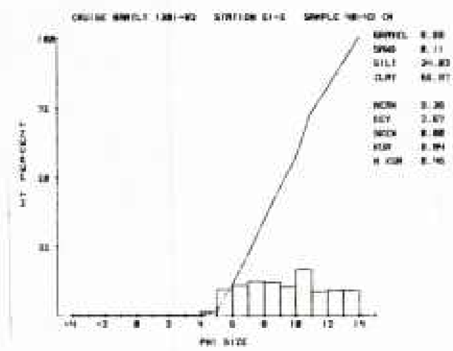


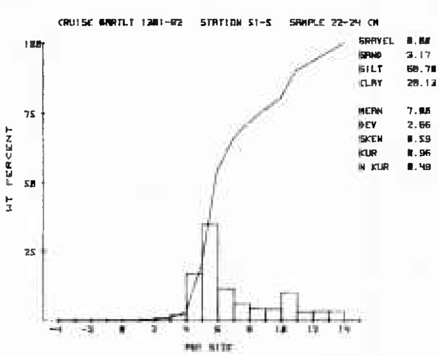

CRUISE BARTLT 1981-02 STATION S1-S SAMPLE 20-30 CM
GRAVEL 0.00
SAND 2.16
SILT 75.05
CLAY 22.79
MEAN 6.64
DEV 2.59
SKEW 0.64
WT PERCENT
PHI SIZE

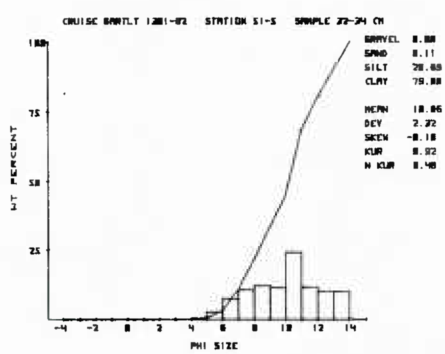


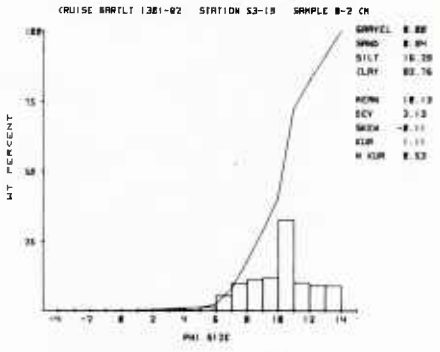


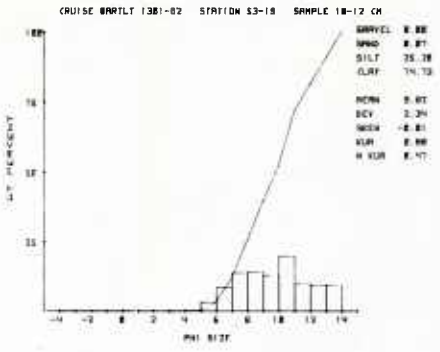


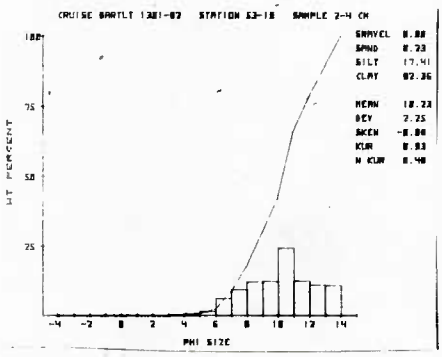


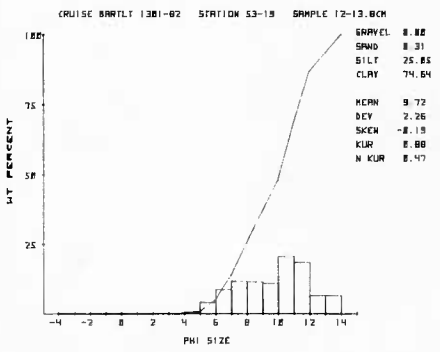

CRUISE BARTLT 1981-02 STATION S1-S SAMPLE 22-24 CM
GRAVEL 0.00
SAND 3.17
SILT 68.70
CLAY 28.13
MEAN 7.06
DEV 2.66
SKEW 0.59
KUR 0.96
N KUR 0.49
WT PERCENT

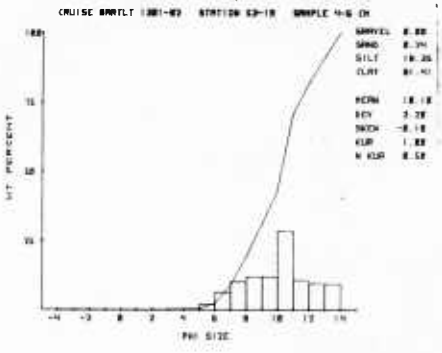



CRUISE BARTLT 1381-82 STATION 53-19 SAMPLE 0-2 CM
GRAVEL 0.00
SAND 0.04
SILT 16.20
CLAY 83.76
MEAN 10.13
DEV 3.13
SKEW -0.11
KUR 1.11
N KUR 0.53
WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION 53-19 SAMPLE 10-12 CM
WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION 53-19 SAMPLE 2-4 CM
GRAVEL 0.00
SAND 0.23
SILT 17.41
CLAY 82.36
MEAN 10.23
DEV 2.25
SKEW -0.06
KUR 0.93
N KUR 0.48
WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION 53-19 SAMPLE 12-13.0CM
GRAVEL 0.00
SAND 0.31
SILT 25.05
CLAY 74.64
MEAN 9.72
DEV 2.26
SKEW -0.19
KUR 0.00
WT PERCENT
PHI SIZE


WT PERCENT
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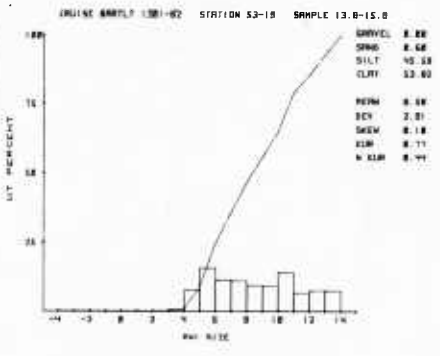
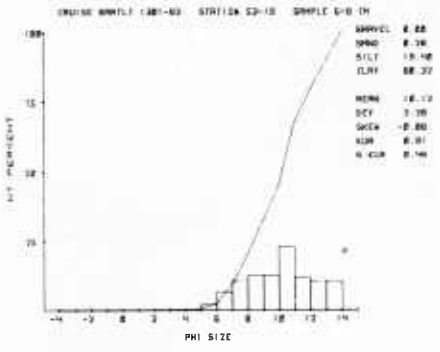
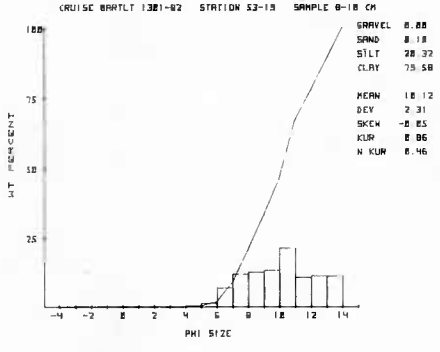
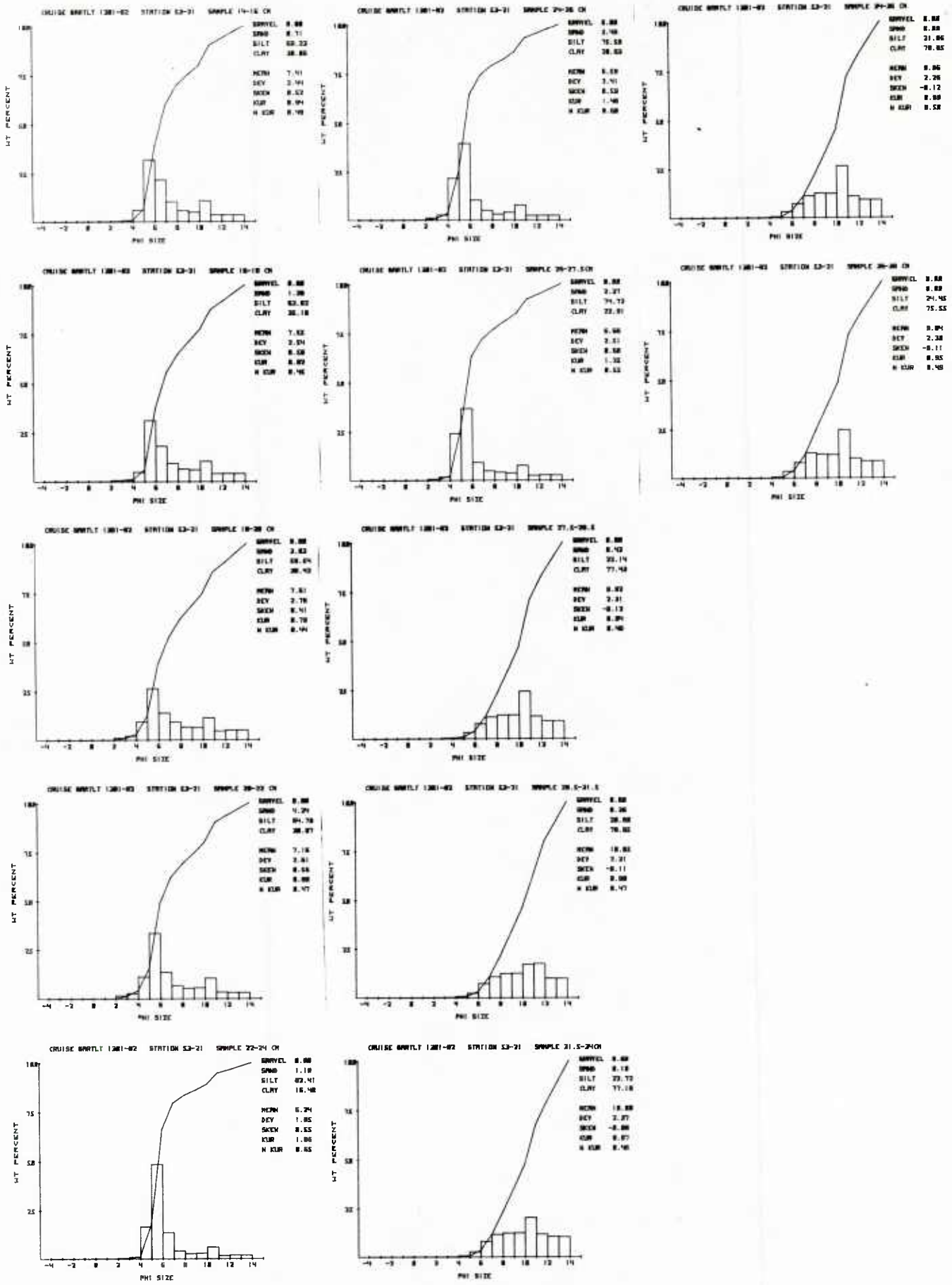
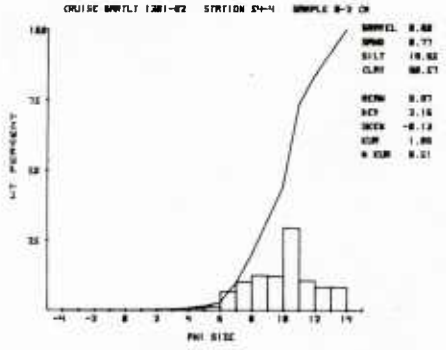
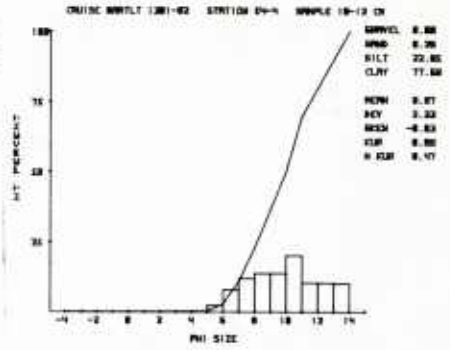

CRUISE BARTLT 1381-82 STATION 53-19 SAMPLE 13.0-15.0
WT PERCENT
PHI SIZE

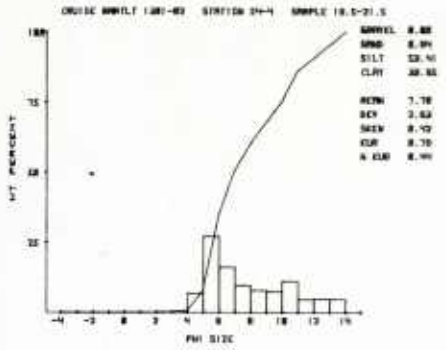

WT PERCENT
PHI SIZE

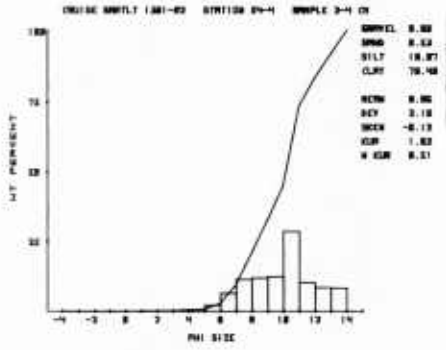

CRUISE BARTLT 1381-82 STATION 53-19 SAMPLE 0-18 CM
GRAVEL 0.00
SAND 0.18
SILT 20.32
CLAY 79.50
MEAN 10.12
DEV 2.31
SKEW -0.05
KUR 0.86
N KUR 0.46
WT PERCENT
PHI SIZE

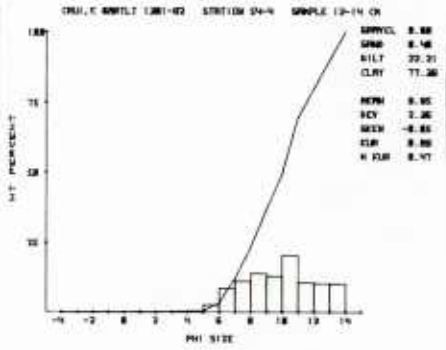


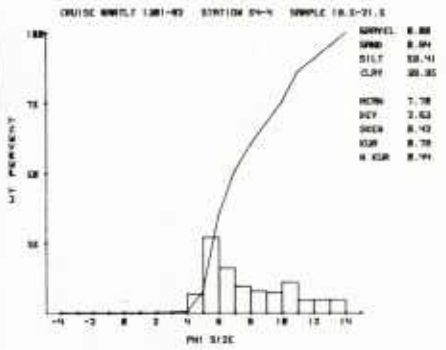


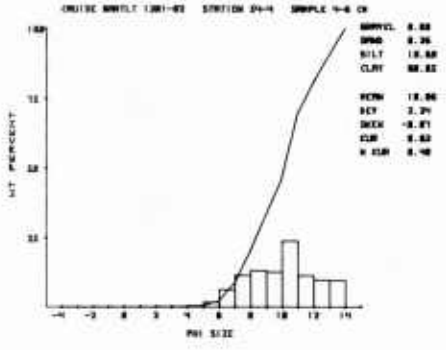


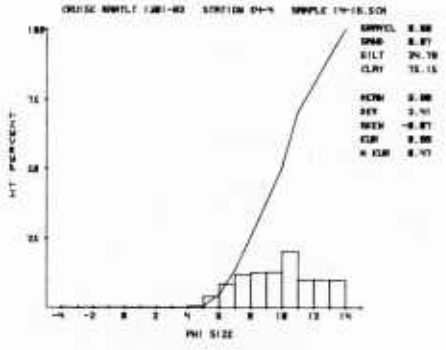


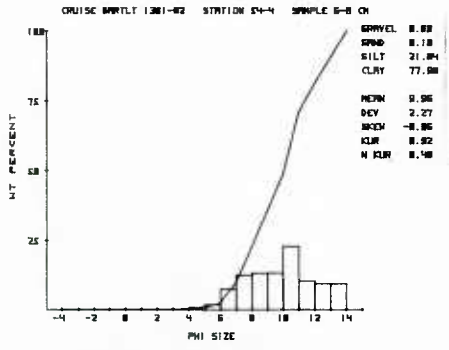


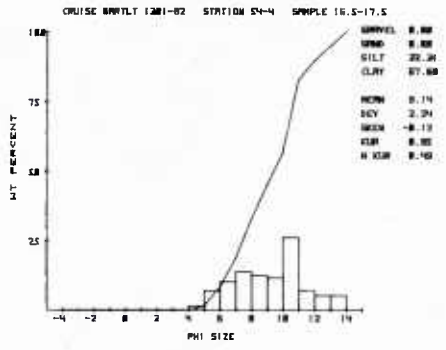


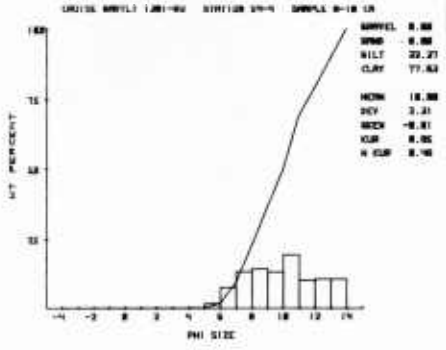


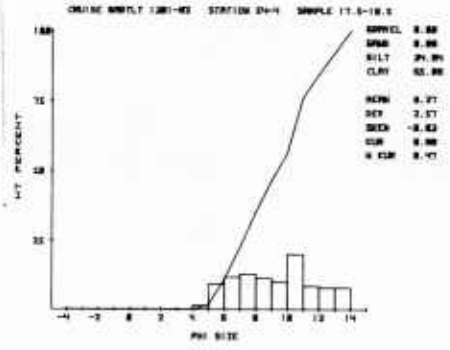


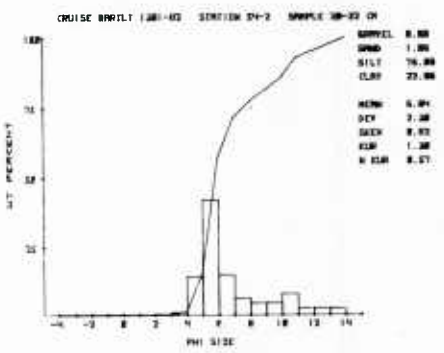


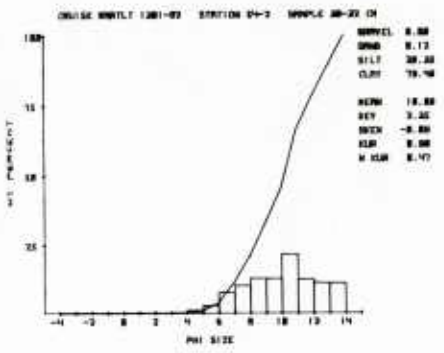


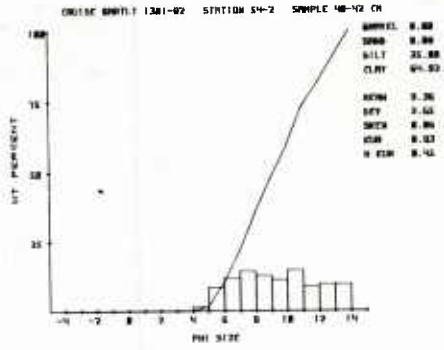


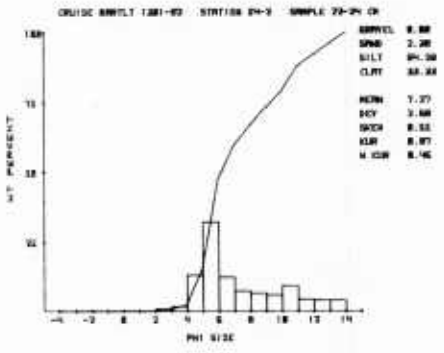


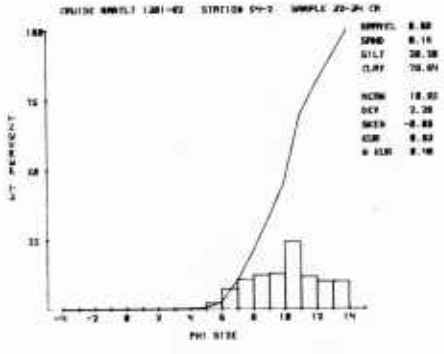


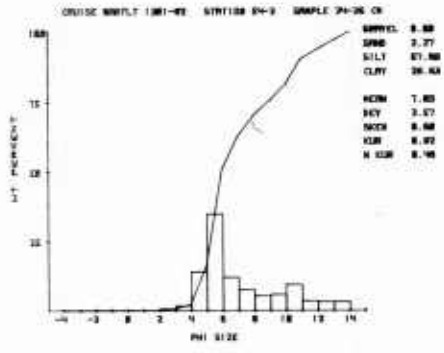


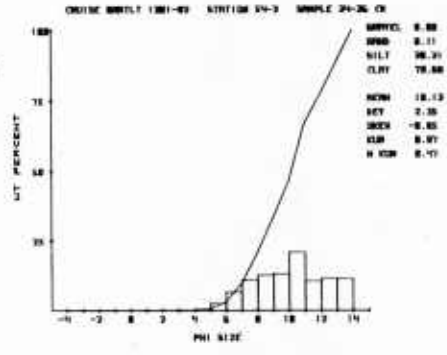


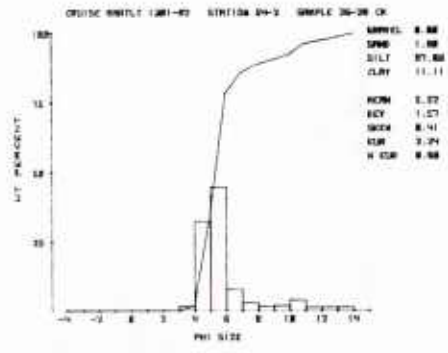


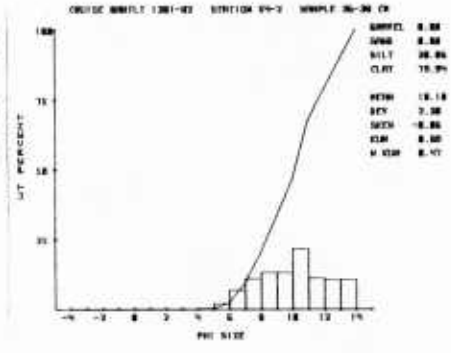


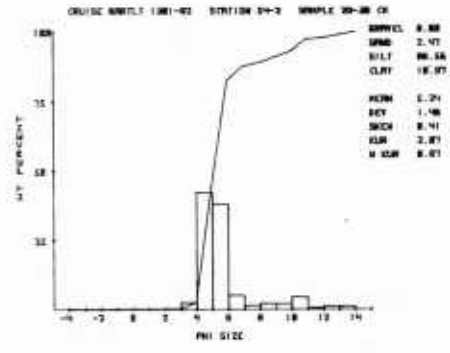


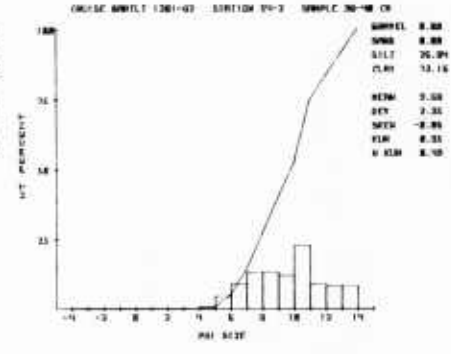


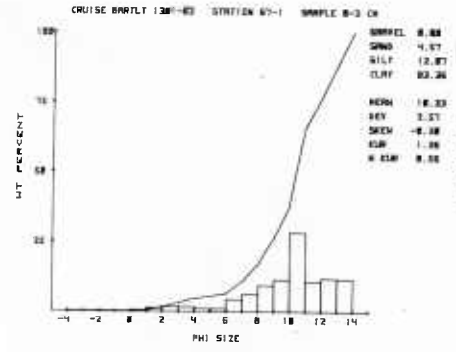


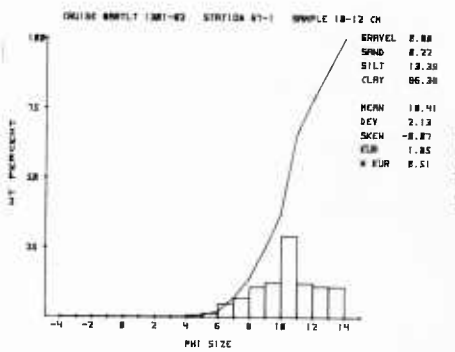


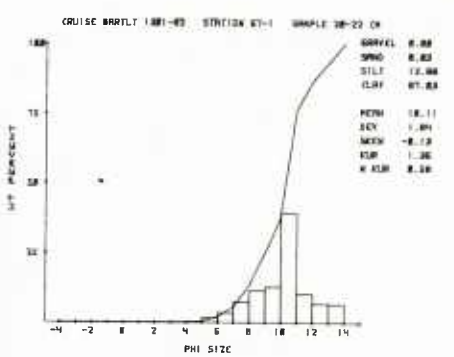


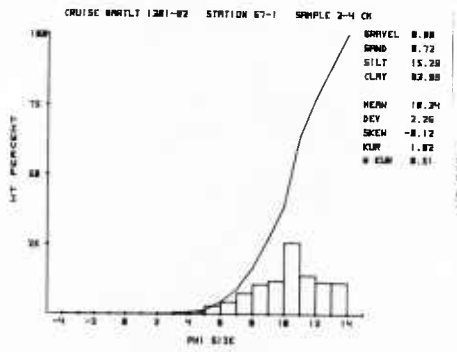


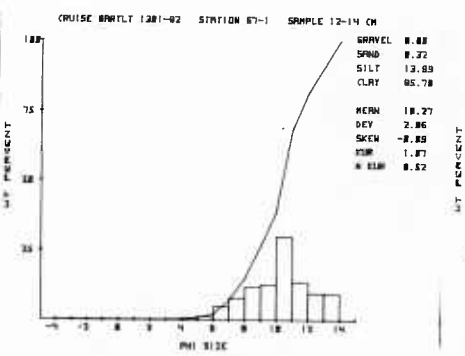


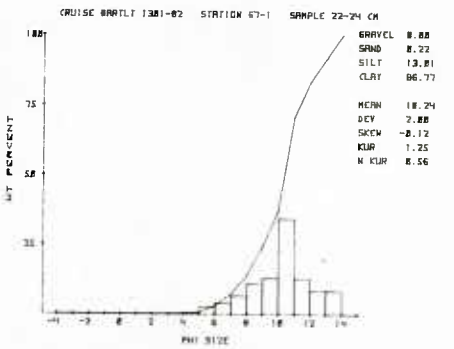

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 0-2 CM
GRAVEL 0.00
SAND 4.57
SILT 12.87
CLAY 82.56
MEAN 10.33
DEV 3.57
SKEW -0.38
KUR 1.06
N KUR 0.56
WT PERCENT
PHI SIZE

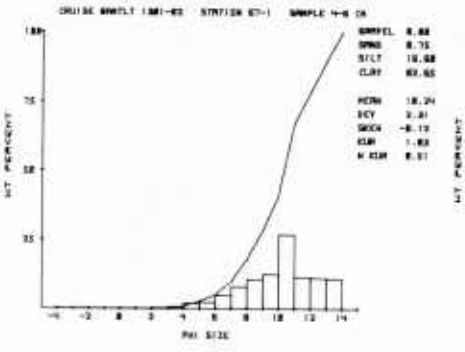

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 10-12 CM
GRAVEL 0.00
SAND 0.22
SILT 13.39
CLAY 86.38
MEAN 10.41
DEV 2.13
SKEW -0.07
KUR 1.05
N KUR 0.51
WT PERCENT
PHI SIZE

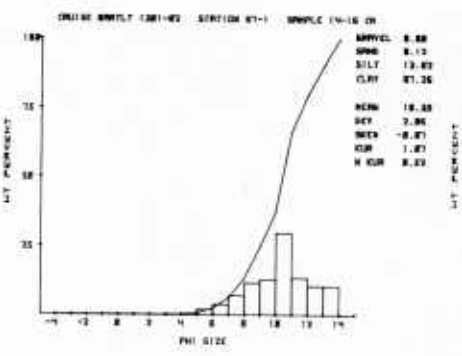

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 20-22 CM
GRAVEL 0.00
SAND 0.00
SILT 12.00
CLAY 87.83
MEAN 10.11
DEV 1.84
SKEW -0.13
KUR 1.26
N KUR 0.58
WT PERCENT
PHI SIZE

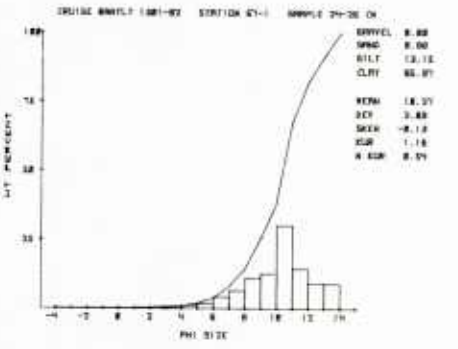

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 2-4 CM
GRAVEL 0.00
SAND 0.72
SILT 15.28
CLAY 83.99
MEAN 10.24
DEV 2.26
SKEW -0.12
KUR 1.02
N KUR 0.51
WT PERCENT
PHI SIZE

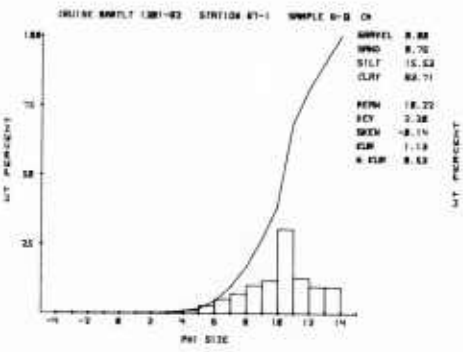

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 12-14 CM
GRAVEL 0.00
SAND 0.22
SILT 13.89
CLAY 85.78
MEAN 10.27
DEV 2.06
SKEW -0.09
KUR 1.07
N KUR 0.52
WT PERCENT
PHI SIZE

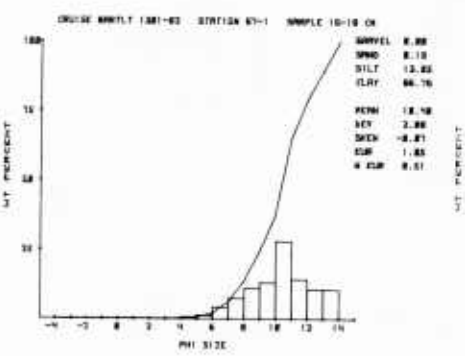

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 22-24 CM
GRAVEL 0.00
SAND 0.22
SILT 13.81
CLAY 86.77
MEAN 10.24
DEV 2.08
SKEW -0.12
KUR 1.25
N KUR 0.56
WT PERCENT
PHI SIZE

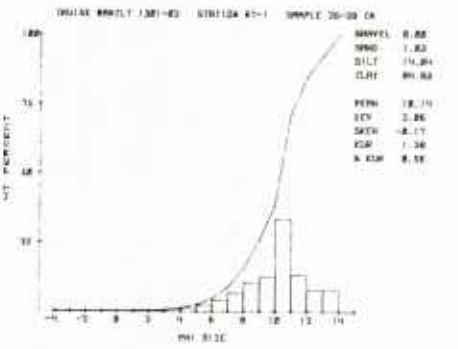

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 4-6 CM
GRAVEL 0.00
SAND 0.15
SILT 16.68
CLAY 83.65
MEAN 10.24
DEV 2.31
SKEW -0.13
KUR 1.03
N KUR 0.51
WT PERCENT
PHI SIZE

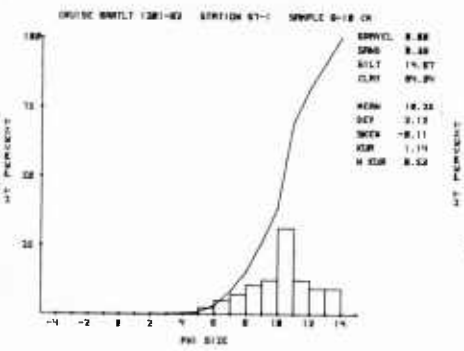

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 14-16 CM
GRAVEL 0.00
SAND 0.13
SILT 13.03
CLAY 87.26
MEAN 10.30
DEV 2.06
SKEW -0.07
KUR 1.07
N KUR 0.53
WT PERCENT
PHI SIZE

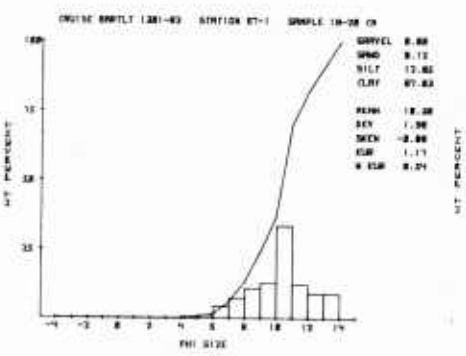

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 24-26 CM
GRAVEL 0.00
SAND 0.00
SILT 13.13
CLAY 86.87
MEAN 10.31
DEV 2.00
SKEW -0.13
KUR 1.16
N KUR 0.54
WT PERCENT
PHI SIZE

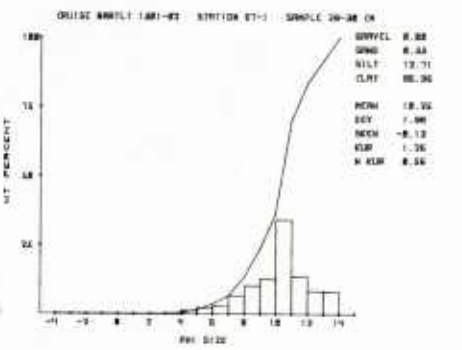

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 6-8 CM
GRAVEL 0.00
SAND 0.70
SILT 15.53
CLAY 83.71
MEAN 10.22
DEV 2.28
SKEW -0.14
KUR 1.13
N KUR 0.53
WT PERCENT
PHI SIZE

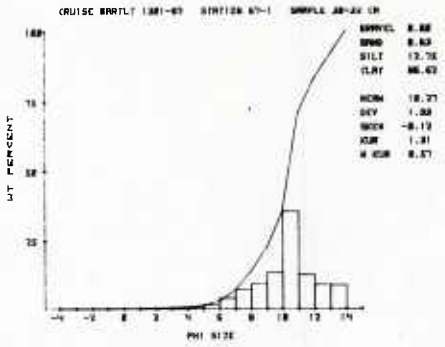

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 16-18 CM
GRAVEL 0.00
SAND 0.13
SILT 13.03
CLAY 86.76
MEAN 10.30
DEV 2.06
SKEW -0.07
KUR 1.05
N KUR 0.51
WT PERCENT
PHI SIZE

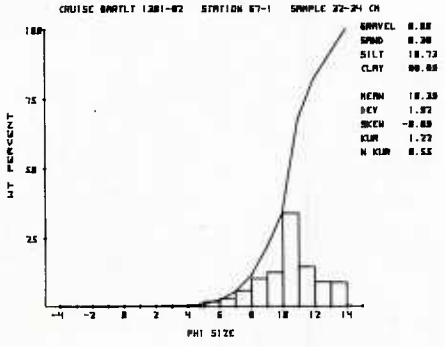

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 26-28 CM
GRAVEL 0.00
SAND 1.83
SILT 14.84
CLAY 84.84
MEAN 10.14
DEV 2.06
SKEW -0.17
KUR 1.30
N KUR 0.58
WT PERCENT
PHI SIZE

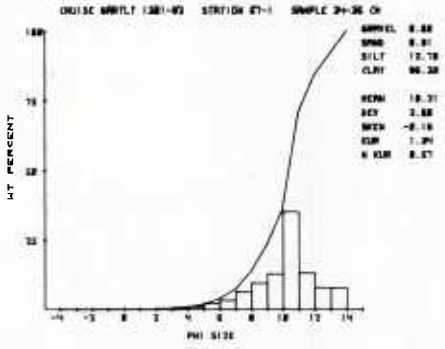

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 8-10 CM
GRAVEL 0.00
SAND 0.00
SILT 14.87
CLAY 85.13
MEAN 10.33
DEV 2.13
SKEW -0.11
KUR 1.14
N KUR 0.53
WT PERCENT
PHI SIZE

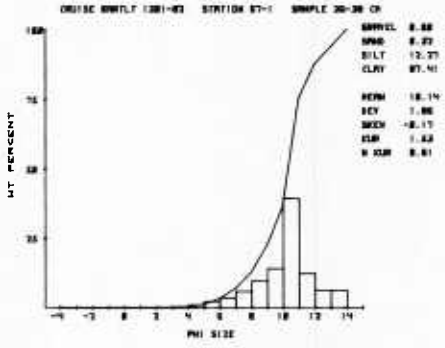

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 18-20 CM
GRAVEL 0.00
SAND 0.13
SILT 12.80
CLAY 87.03
MEAN 10.38
DEV 1.98
SKEW -0.06
KUR 1.11
N KUR 0.49
WT PERCENT
PHI SIZE

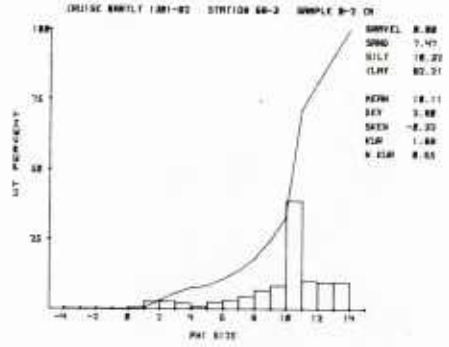

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 28-30 CM
GRAVEL 0.00
SAND 0.00
SILT 13.71
CLAY 86.30
MEAN 10.35
DEV 1.98
SKEW -0.13
KUR 1.26
N KUR 0.56
WT PERCENT
PHI SIZE

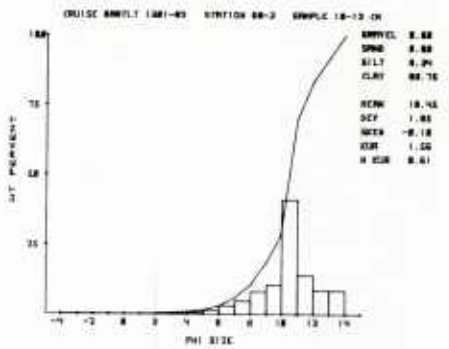

WT PERCENT
PHI SIZE

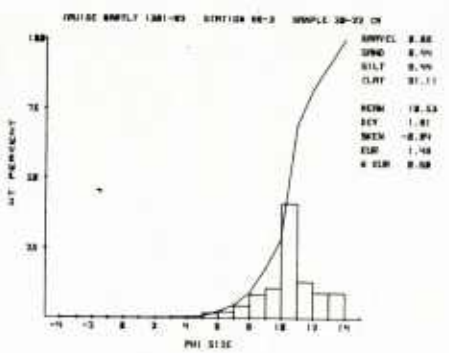

CRUISE BARTLT 1381-82 STATION 67-1 SAMPLE 22-24 CM
GRAVEL 0.00
SAND 0.30
SILT 10.73
CLAY 88.88
MEAN 10.39
DEV 1.92
SKEW -0.89
KUR 1.22
N KUR 0.55
WT PERCENT
PHI SIZE

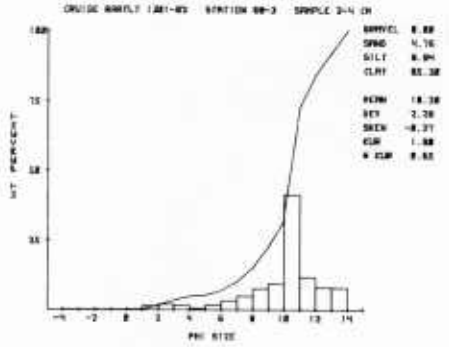

WT PERCENT
PHI SIZE

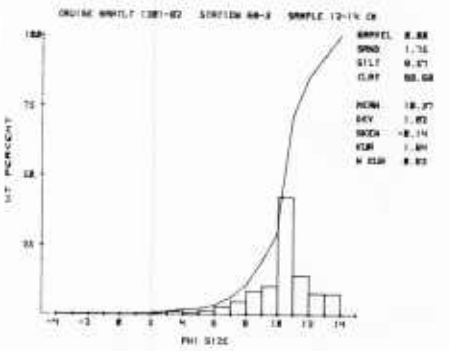

WT PERCENT
PHI SIZE

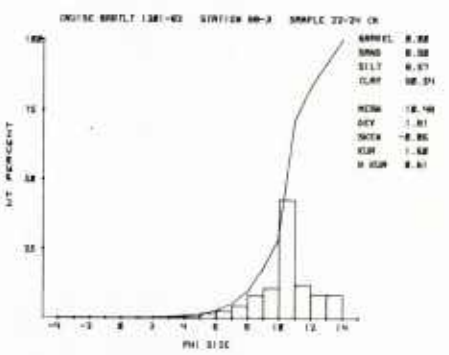


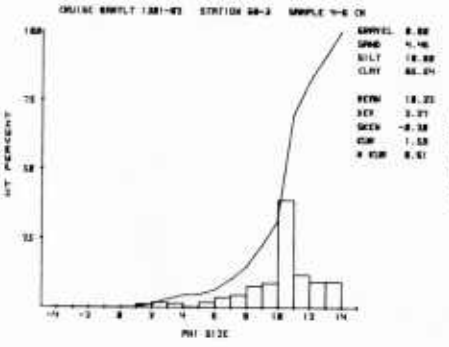


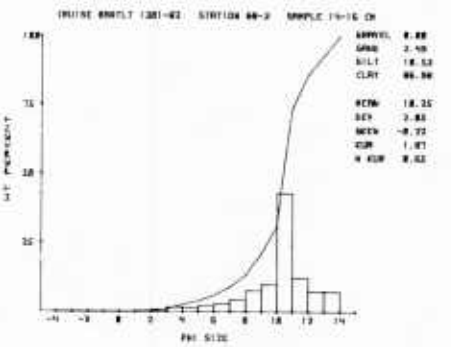


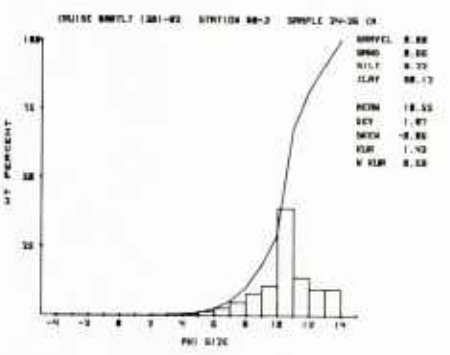


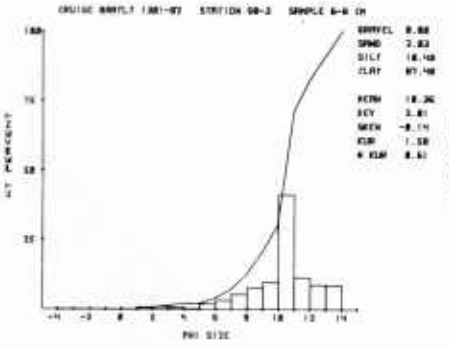


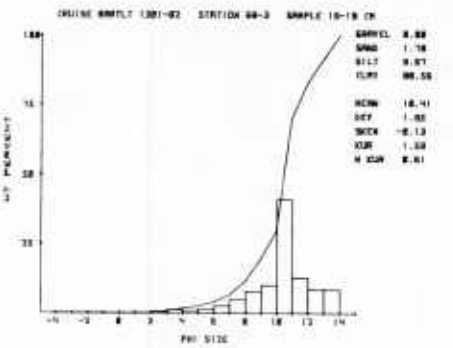


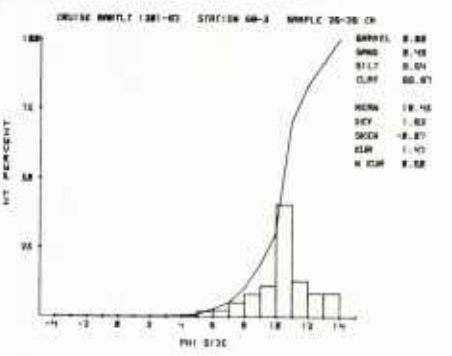


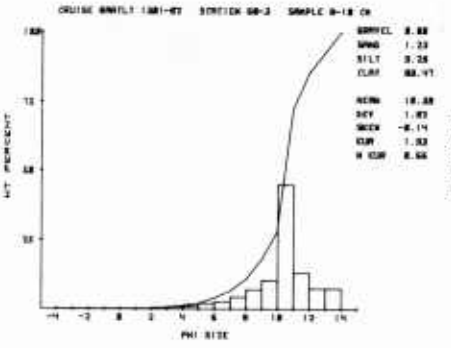


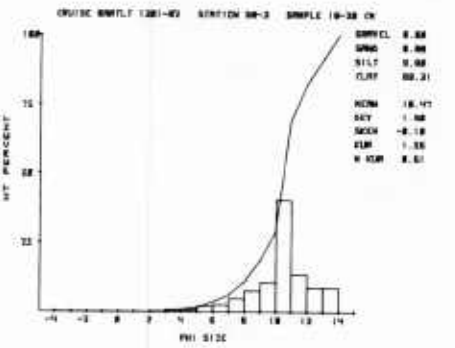


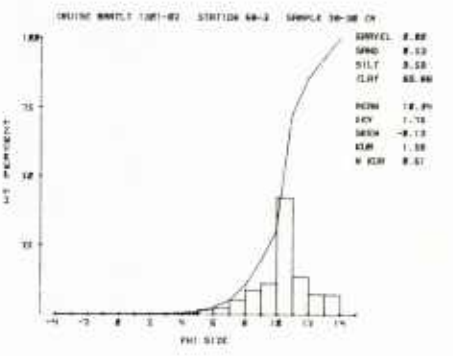


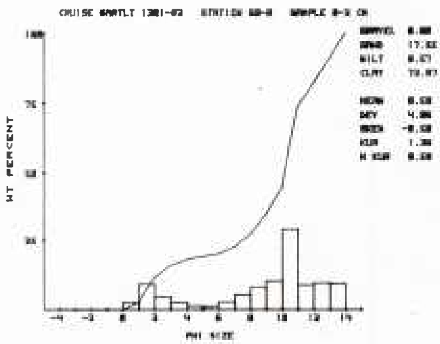


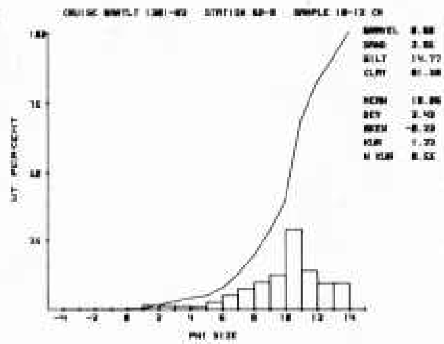


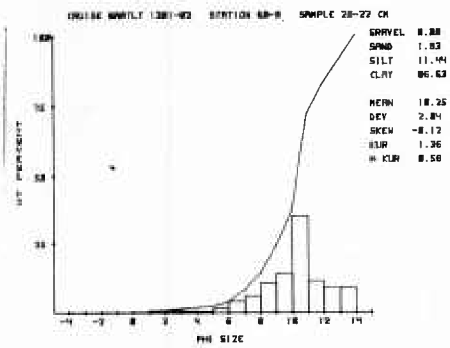


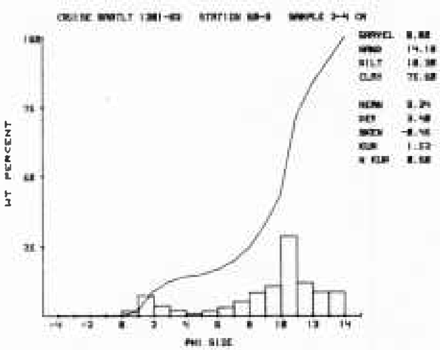


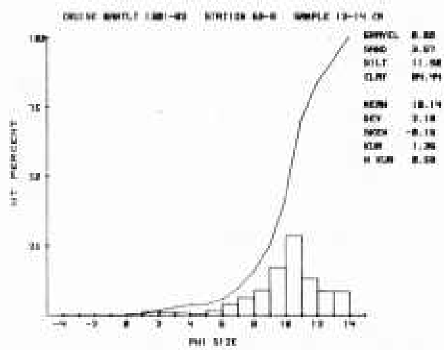


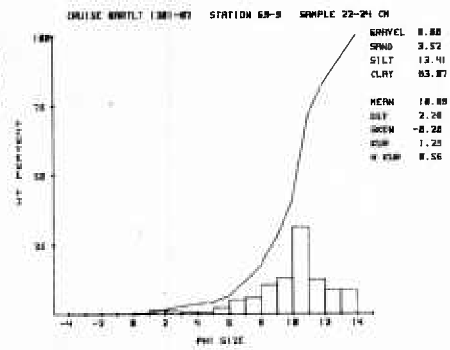

WT PERCENT
PHI SIZE

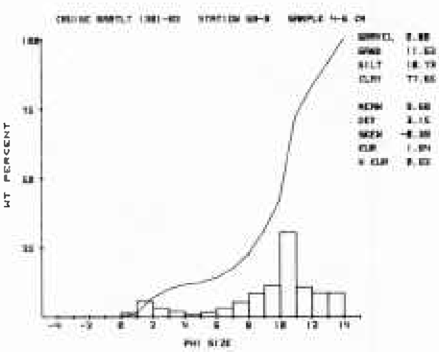

WT PERCENT
PHI SIZE

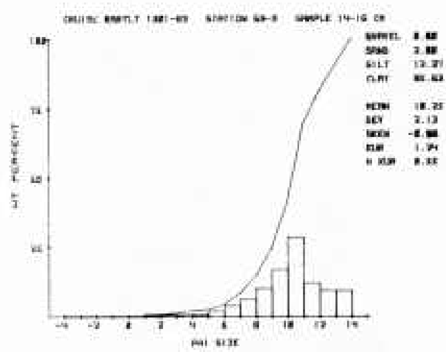

SAMPLE 20-22 CM
GRAVEL 0.00
SAND 1.83
SILT 11.44
CLAY 86.63
MEAN 10.25
DEV 2.04
SKEW -0.12
KUR 1.36
N KUR 0.58
WT PERCENT
PHI SIZE

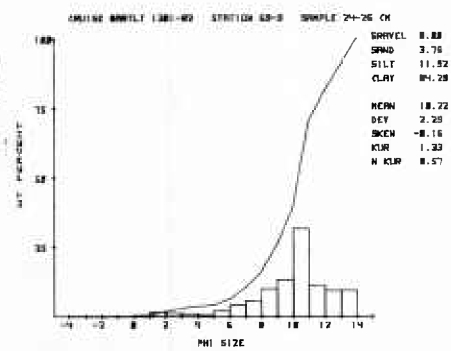

WT PERCENT
PHI SIZE

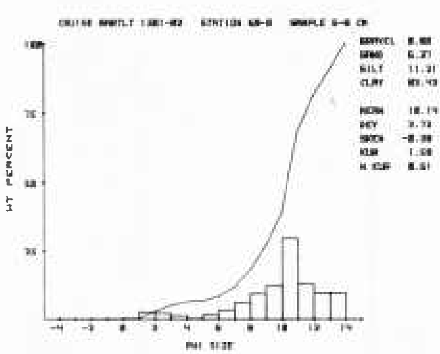

WT PERCENT
PHI SIZE

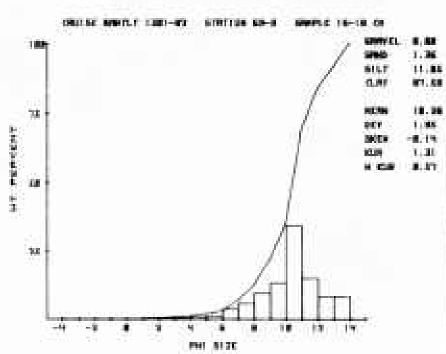

STATION 69-9 SAMPLE 22-24 CM
GRAVEL 0.00
SAND 3.52
SILT 13.41
CLAY 83.07
MEAN
DEV 2.20
SKEW -0.20
KUR 1.29
N KUR 0.56
WT PERCENT
PHI SIZE

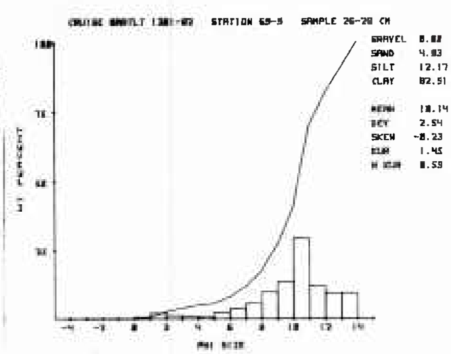

WT PERCENT
PHI SIZE

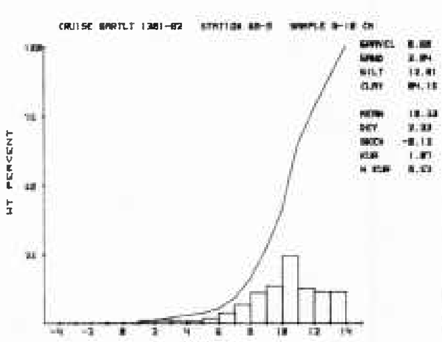

WT PERCENT
PHI SIZE

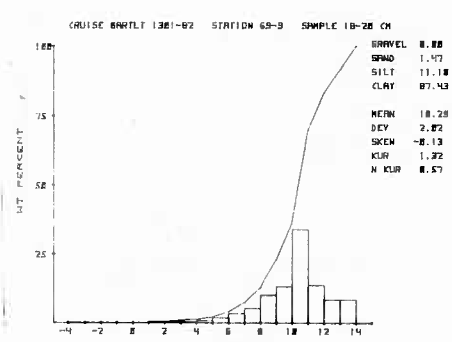

SAMPLE 24-26 CM
GRAVEL 0.00
SAND 3.79
SILT 11.92
CLAY 84.29
MEAN 10.22
DEV 2.29
SKEW -0.16
KUR 1.33
N KUR 0.57
WT PERCENT
PHI SIZE

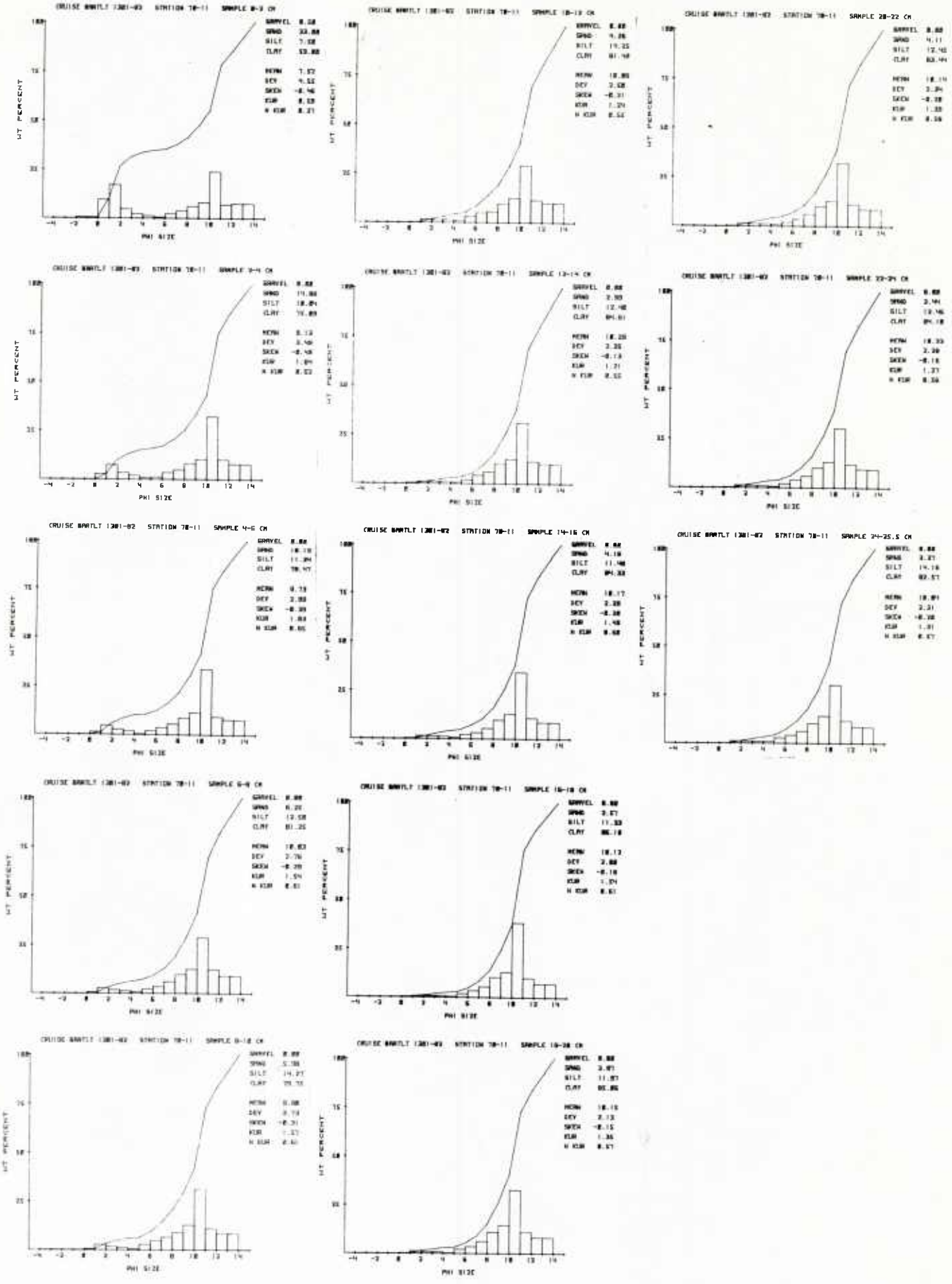

WT PERCENT
PHI SIZE

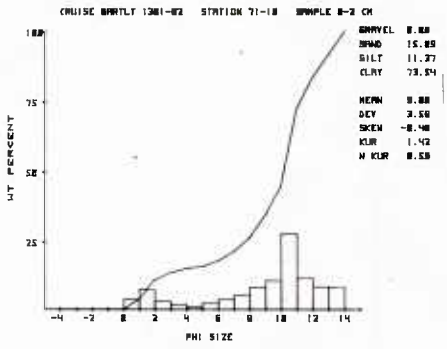

WT PERCENT
PHI SIZE

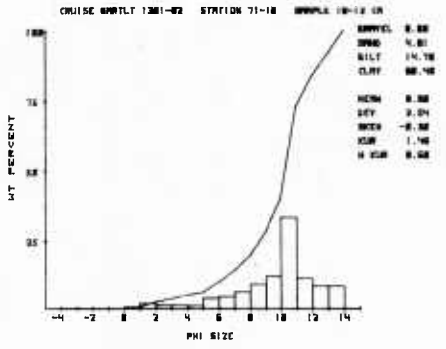

STATION 69-9 SAMPLE 26-28 CM
GRAVEL 0.00
SAND 4.83
SILT 12.17
CLAY 82.51
MEAN 10.14
DEV 2.54
SKEW -0.23
KUR 1.45
N KUR 0.59
WT PERCENT
PHI SIZE


WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION 69-9 SAMPLE 18-20 CM
GRAVEL 0.00
SAND 1.47
SILT 11.10
CLAY 87.43
MEAN 10.29
DEV 2.02
SKEW -0.13
KUR 1.32
N KUR 0.57
WT PERCENT
PHI SIZE




CRUISE BARTLT 1381-82 STATION 71-18 SAMPLE 0-2 CM
GRAVEL 0.00
SAND 15.05
SILT 11.27
CLAY 73.54
MEAN 9.88
DEV 3.58
SKEW -0.48
KUR 1.42
N KUR 0.59
WT PERCENT
PHI SIZE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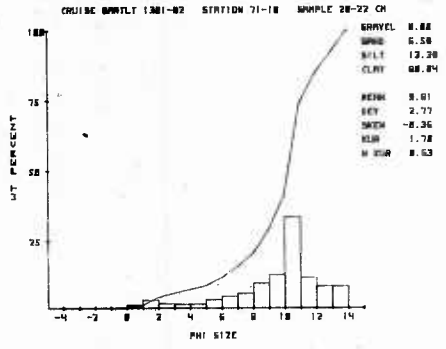
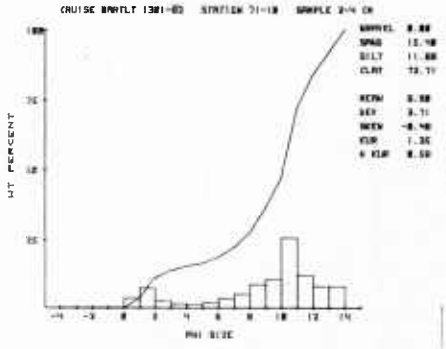
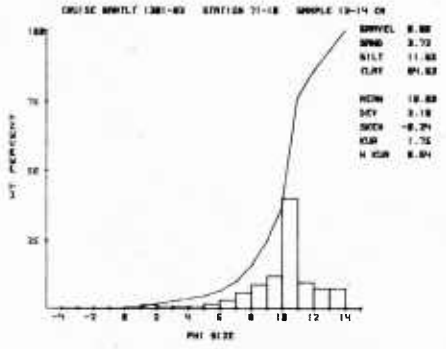
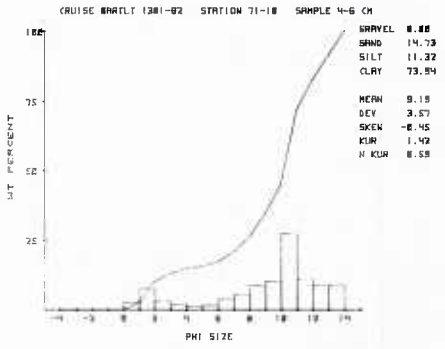
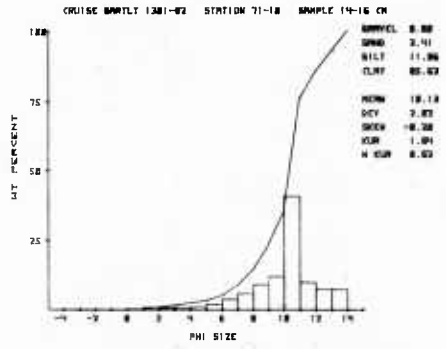
WT PERCENT
PHI SIZE

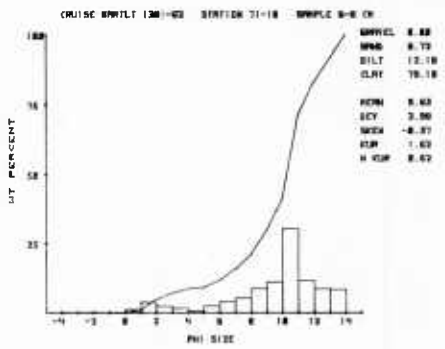

CRUISE BARTLT 1381-82 STATION 71-18 SAMPLE 20-22 CM
GRAVEL 0.00
SAND 6.58
SILT 13.38
CLAY 80.04
MEAN 9.81
DEV 2.77
SKEW -0.36
KUR 1.78
N KUR 0.63
WT PERCENT
PHI SIZE

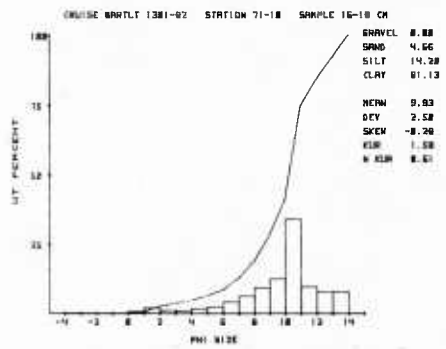

CRUISE BARTLT 1381-82 STATION 71-18
WT PERCENT
PHI SIZE

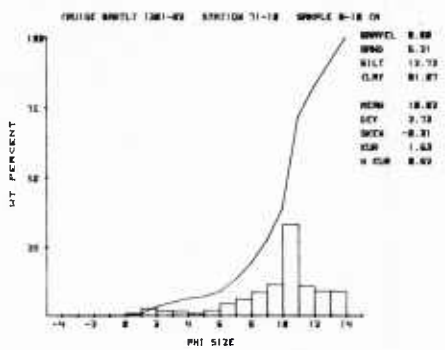

CRUISE BARTLT 1381-82 STATION 71-18
WT PERCENT
PHI SIZE

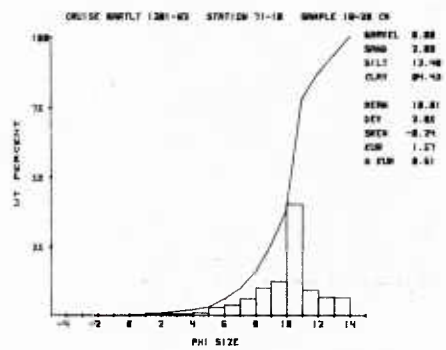

CRUISE BARTLT 1381-82 STATION 71-18 SAMPLE 4-6 CM
GRAVEL 0.00
SAND 14.73
SILT 11.32
CLAY 73.94
MEAN 9.19
DEV 3.57
SKEW -0.45
KUR 1.42
N KUR 0.59
WT PERCENT
PHI SIZE

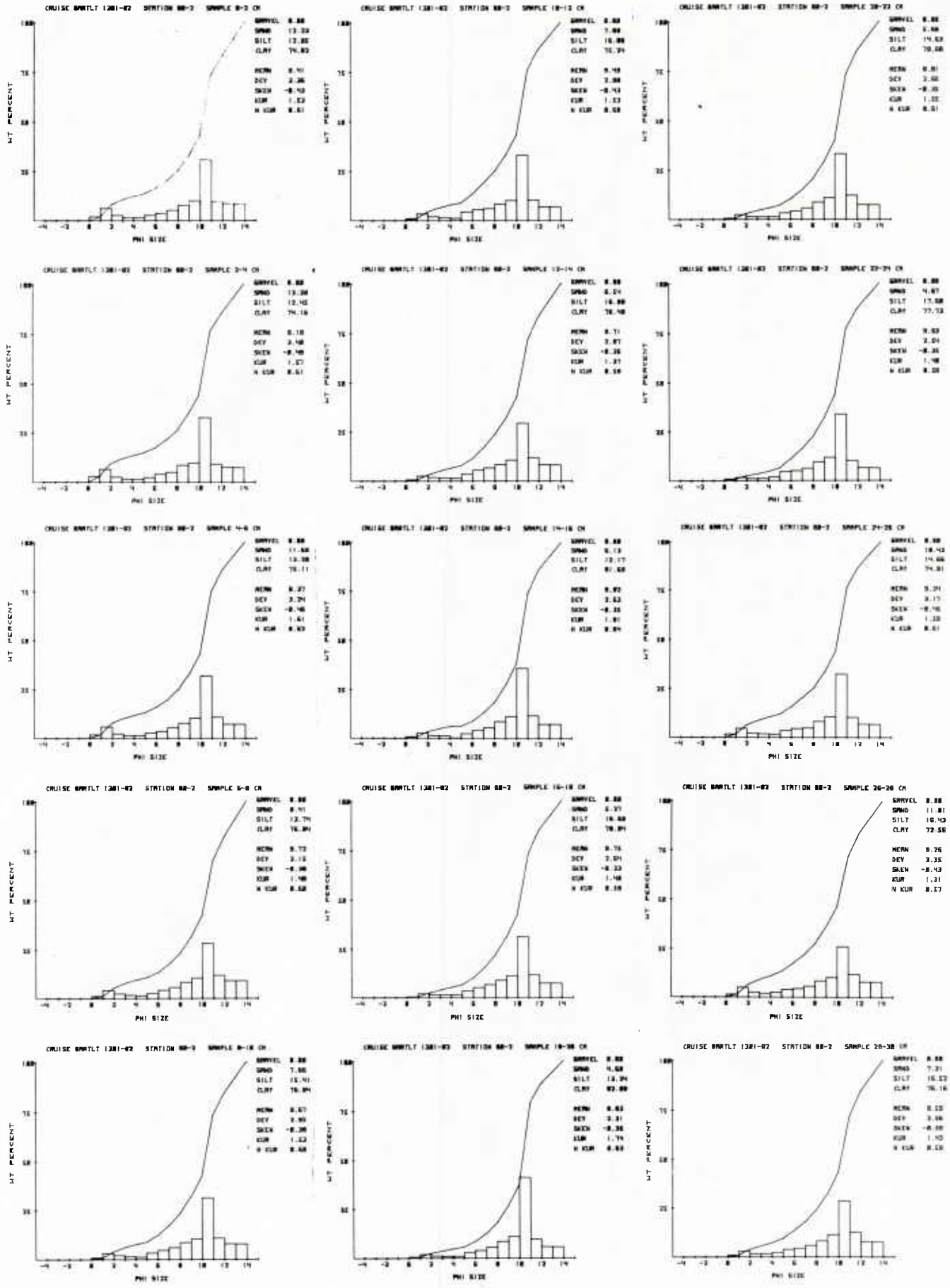

CRUISE BARTLT 1381-82 STATION 71-18
WT PERCENT
PHI SIZE

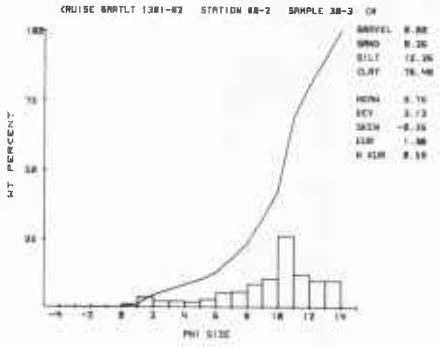

WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION 71-18 SAMPLE 16-18 CM
GRAVEL 0.00
SAND 4.66
SILT 14.20
CLAY 81.13
WT PERCENT
PHI SIZE


WT PERCENT
PHI SIZE


WT PERCENT
PHI SIZE

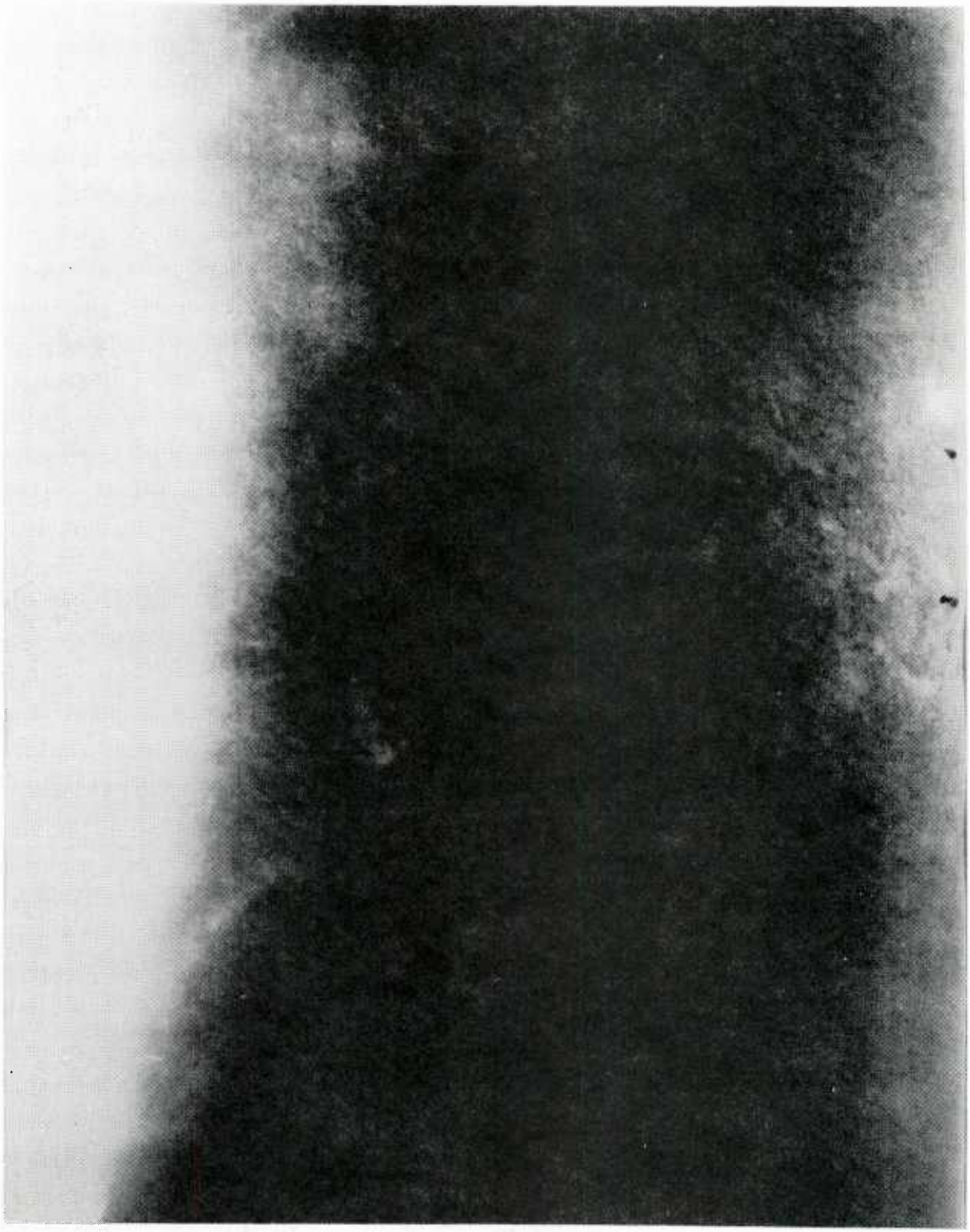

WT PERCENT
PHI SIZE


CRUISE BARTLT 1381-82 STATION 68-2 SAMPLE 38-3 CH
GRAVEL 0.00
SAND 8.35
SILT 12.35
CLAY 79.40
MEAN 8.76
SDV 3.73
SKEW -0.35
KURT 1.88
H KURT 8.59
WT PERCENT
PHI SIZE

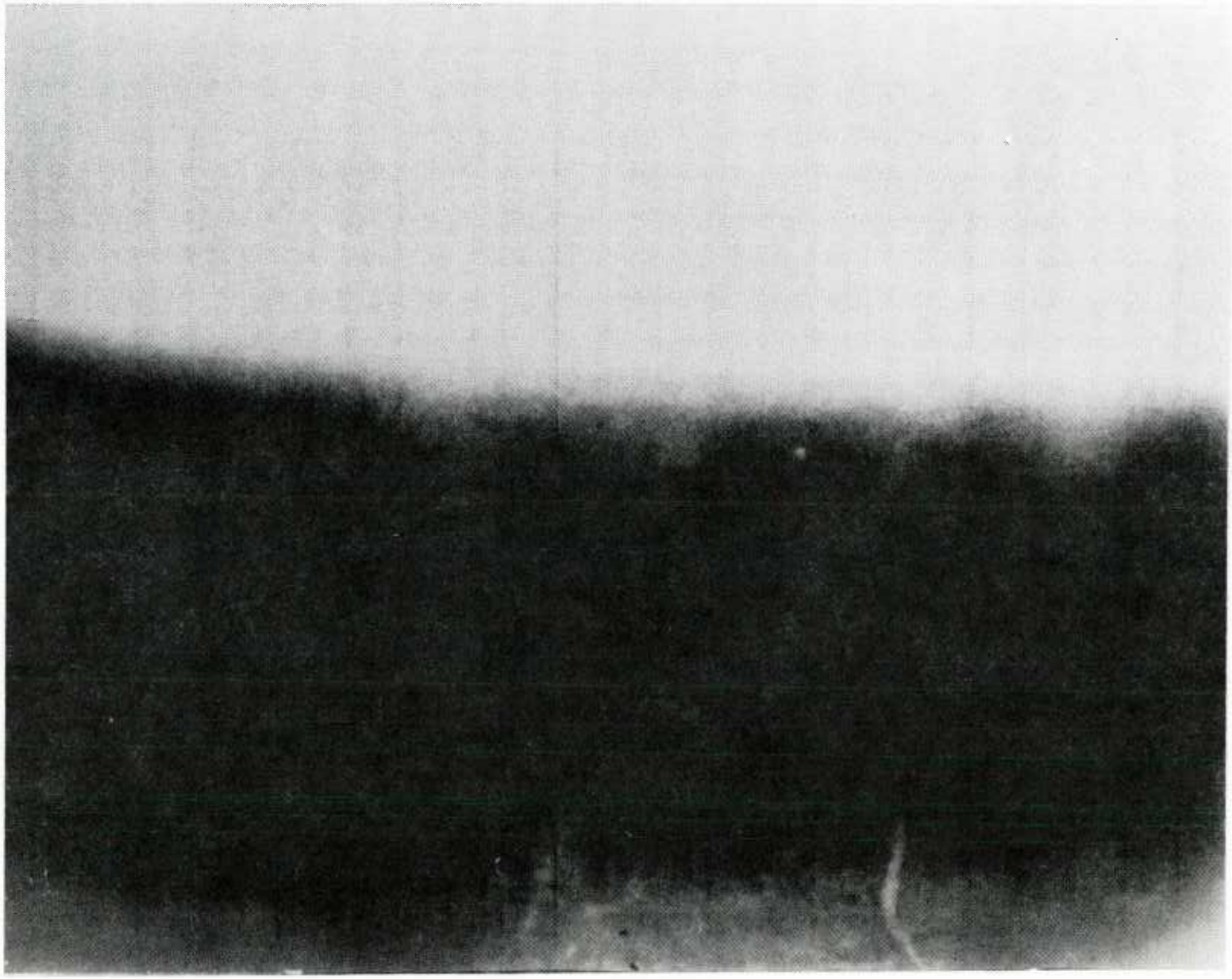
APPENDIX C
X-RADIOGRAPHS OF SEDIMENTS COLLECTED FROM THE VENEZUELA BASIN

X-radiographs of sediments collected with X-ray boxes from intact box cores are presented. X-radiographs depict sedimentary/biological structure from eight stations and include X-radiographs from all three locations. Images are "positives" produced from the developed X-ray transparency and thus darker areas of the X-radiograph denote areas of greater sediment density.

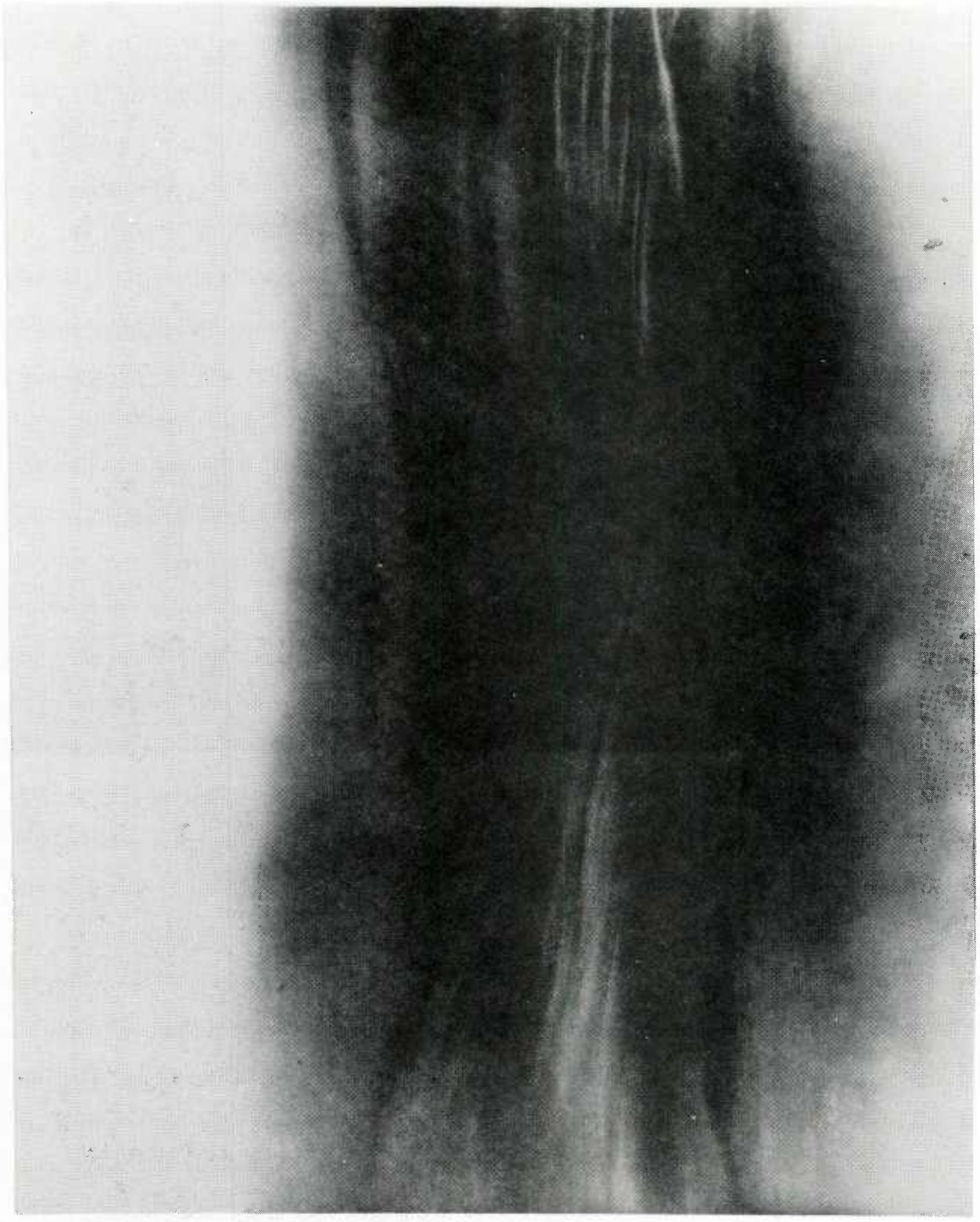
18

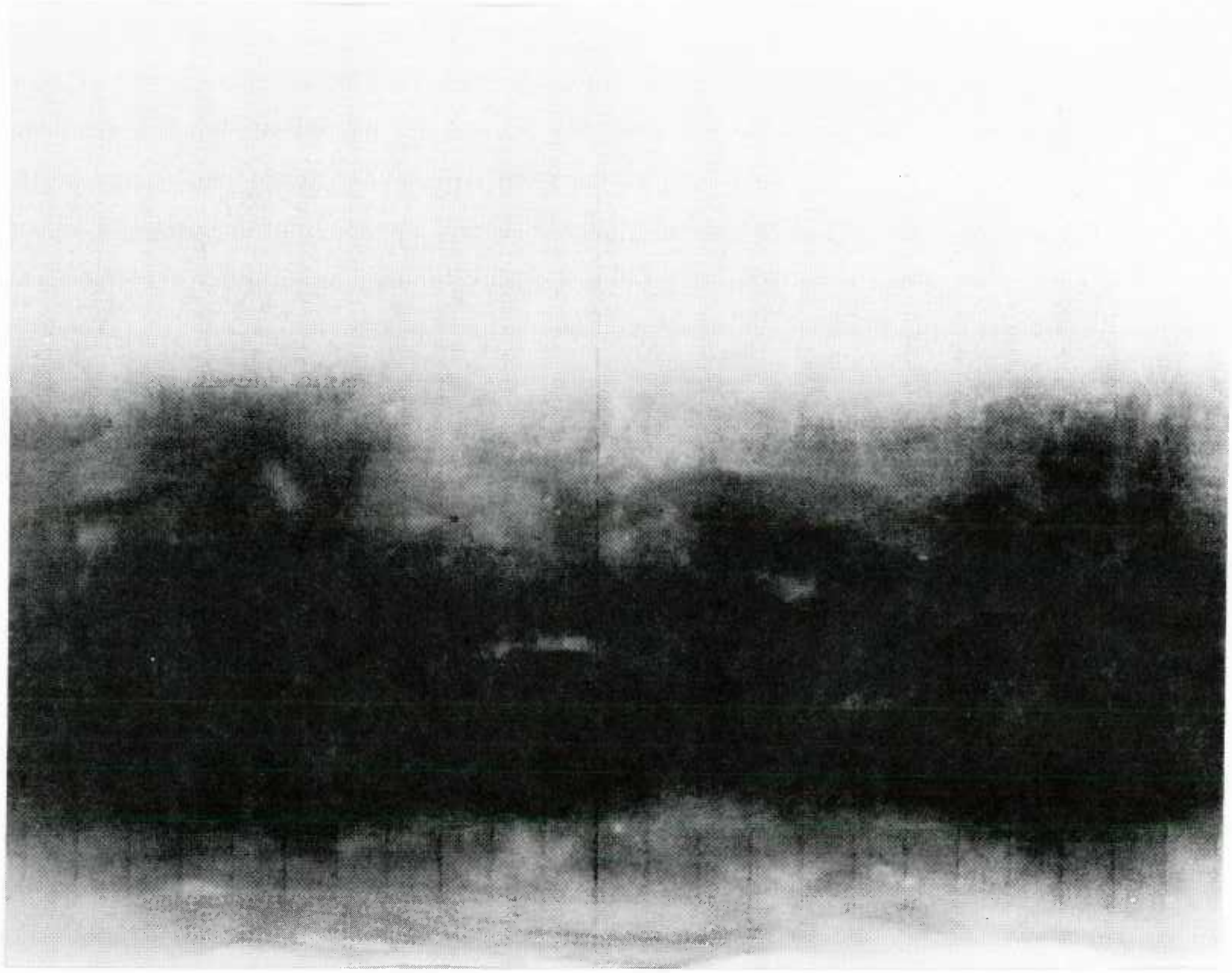


19

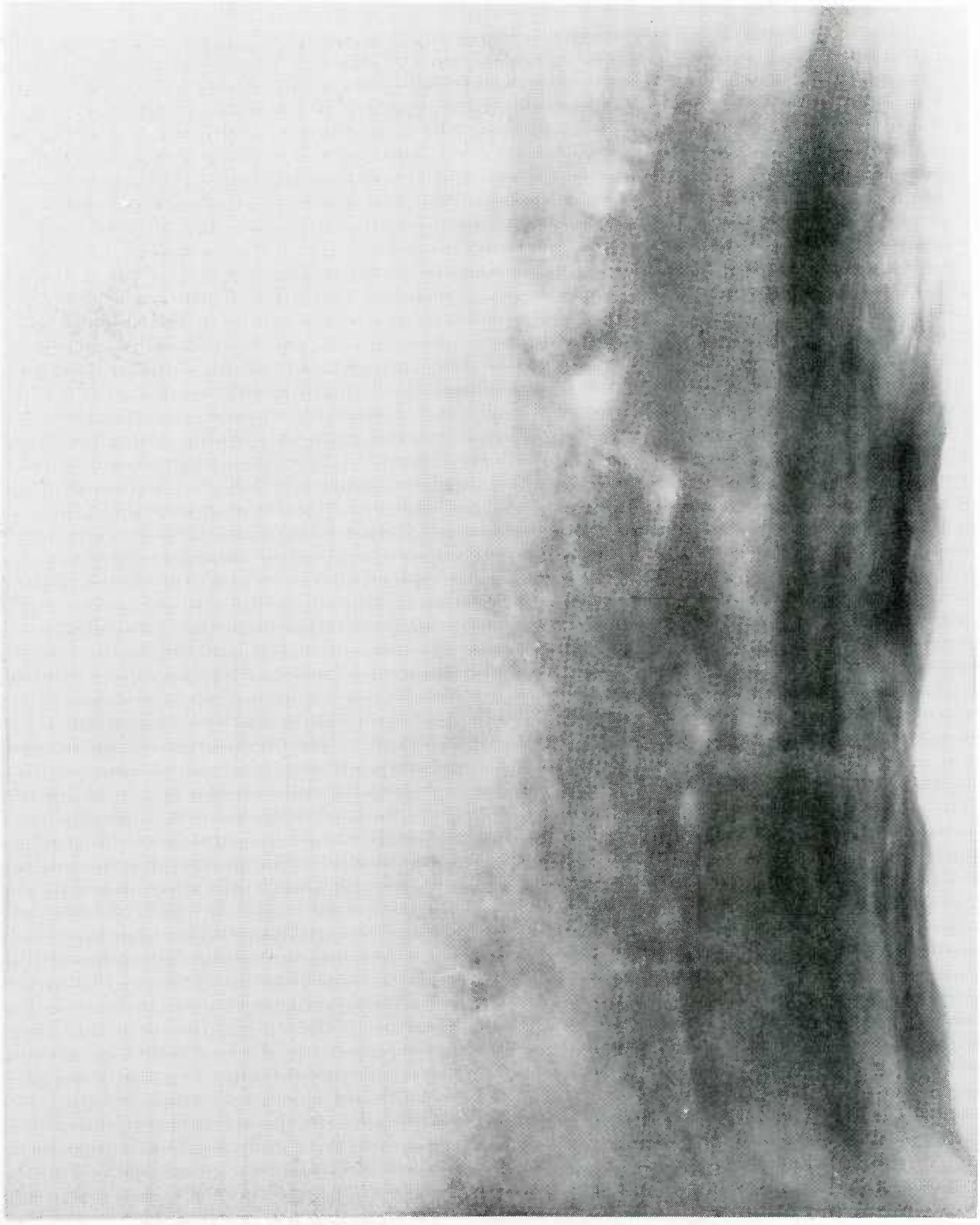


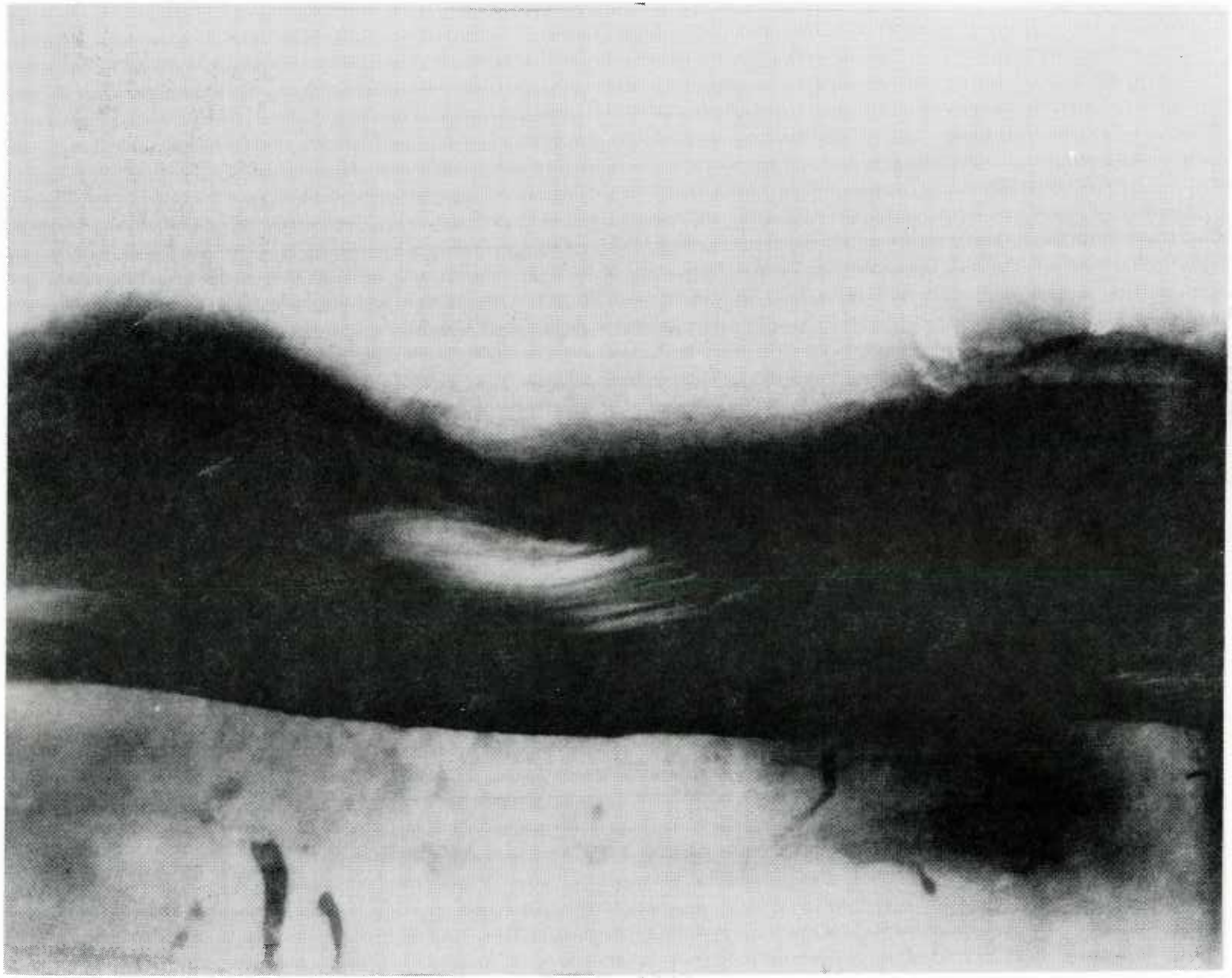
20



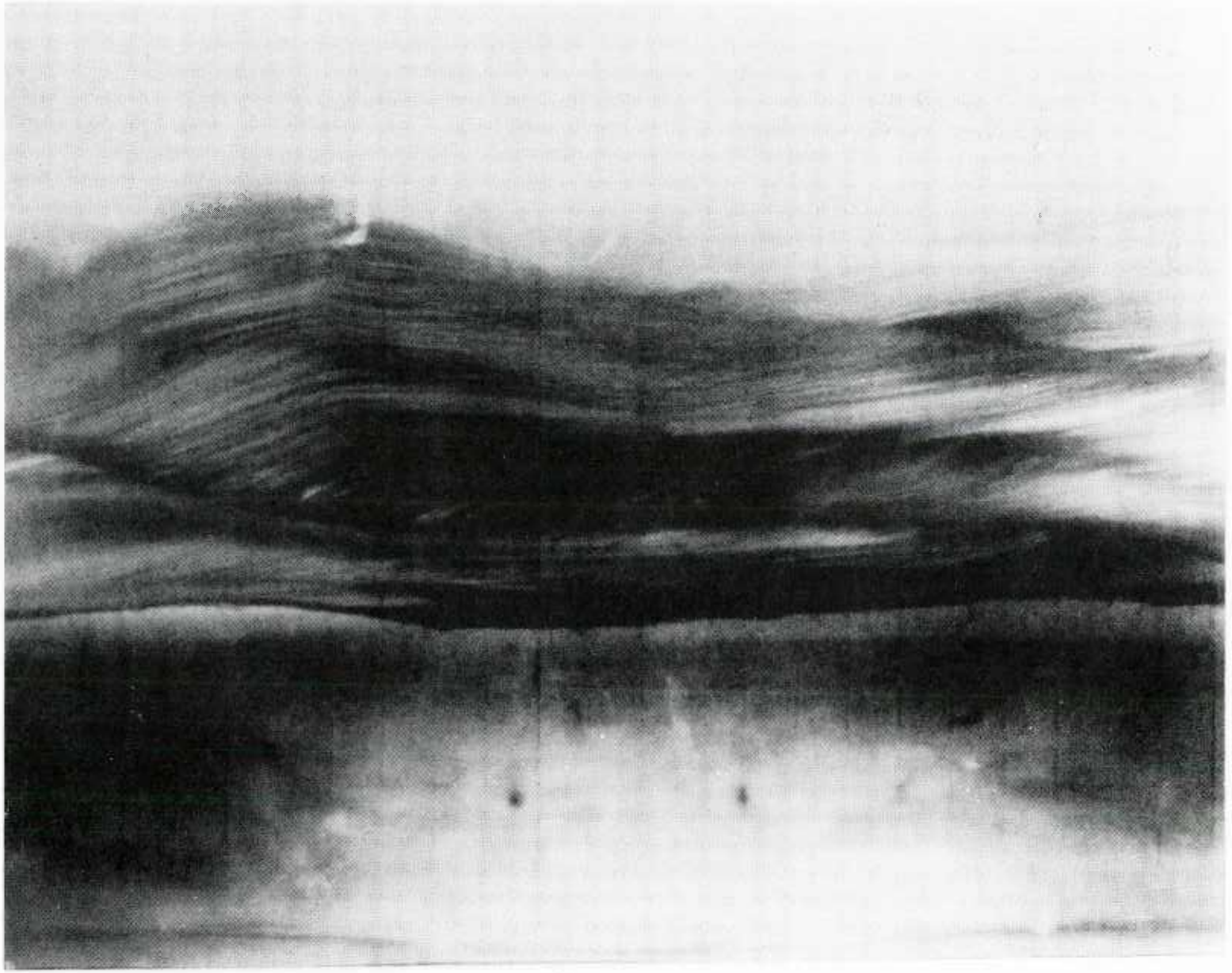


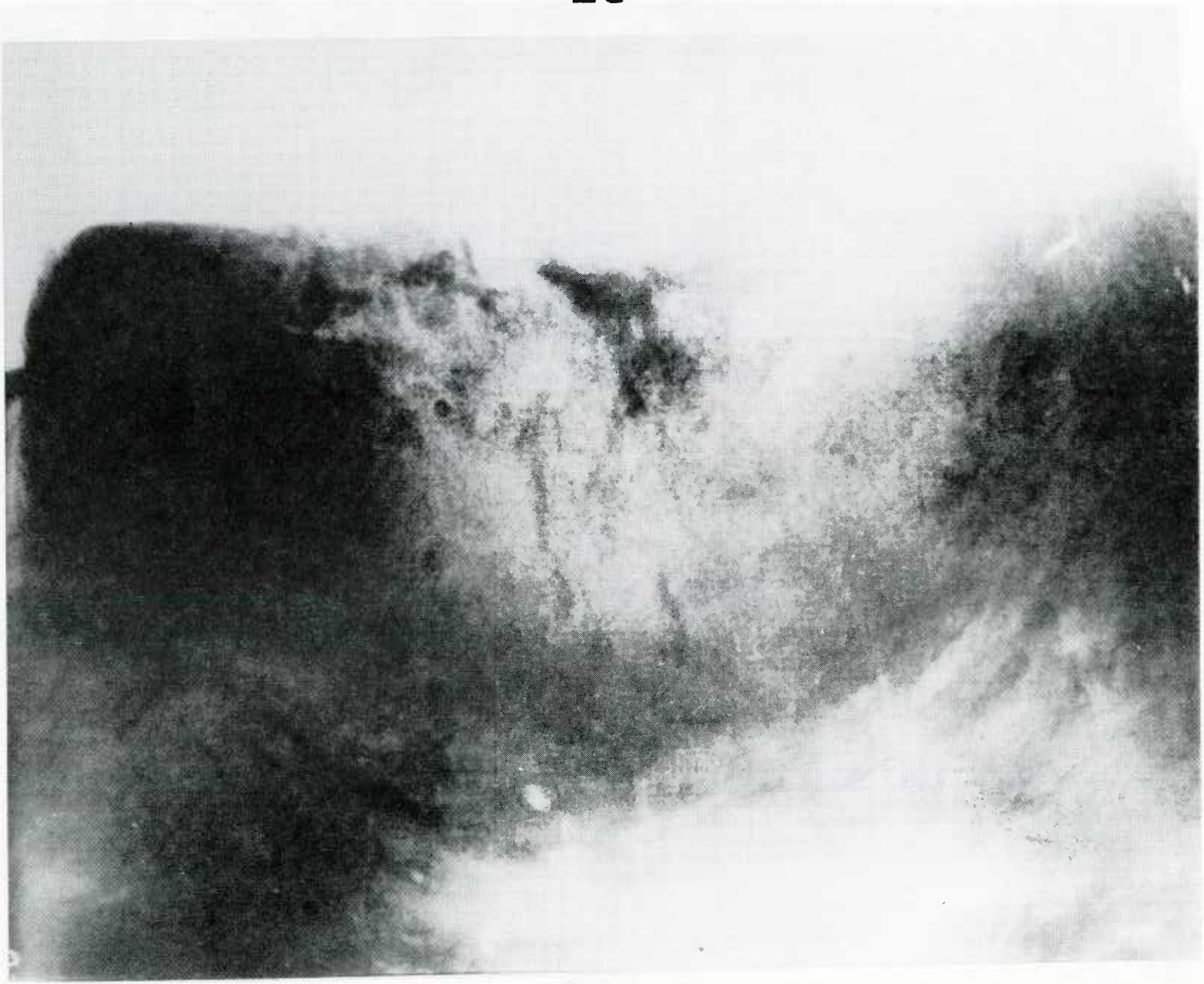
22

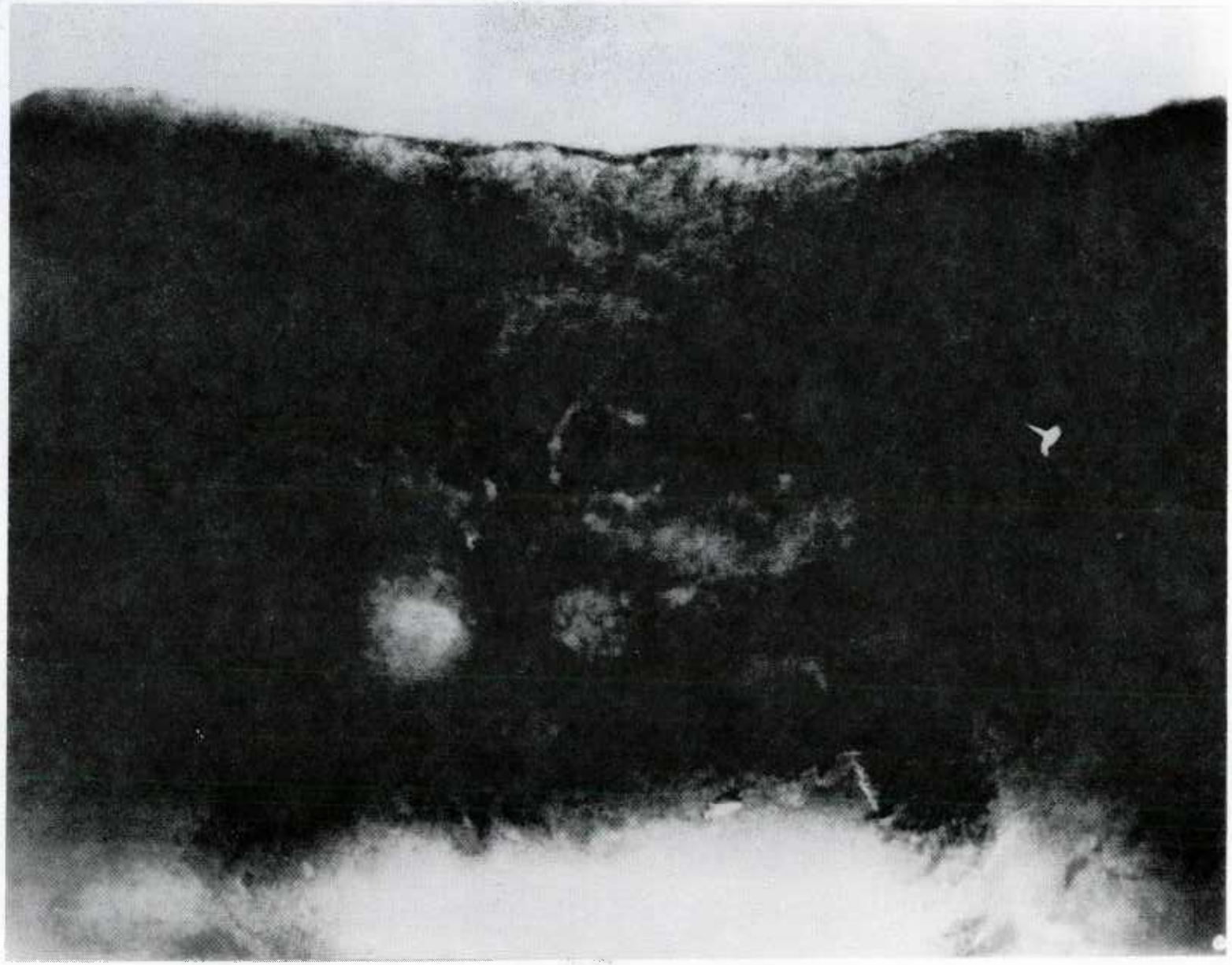




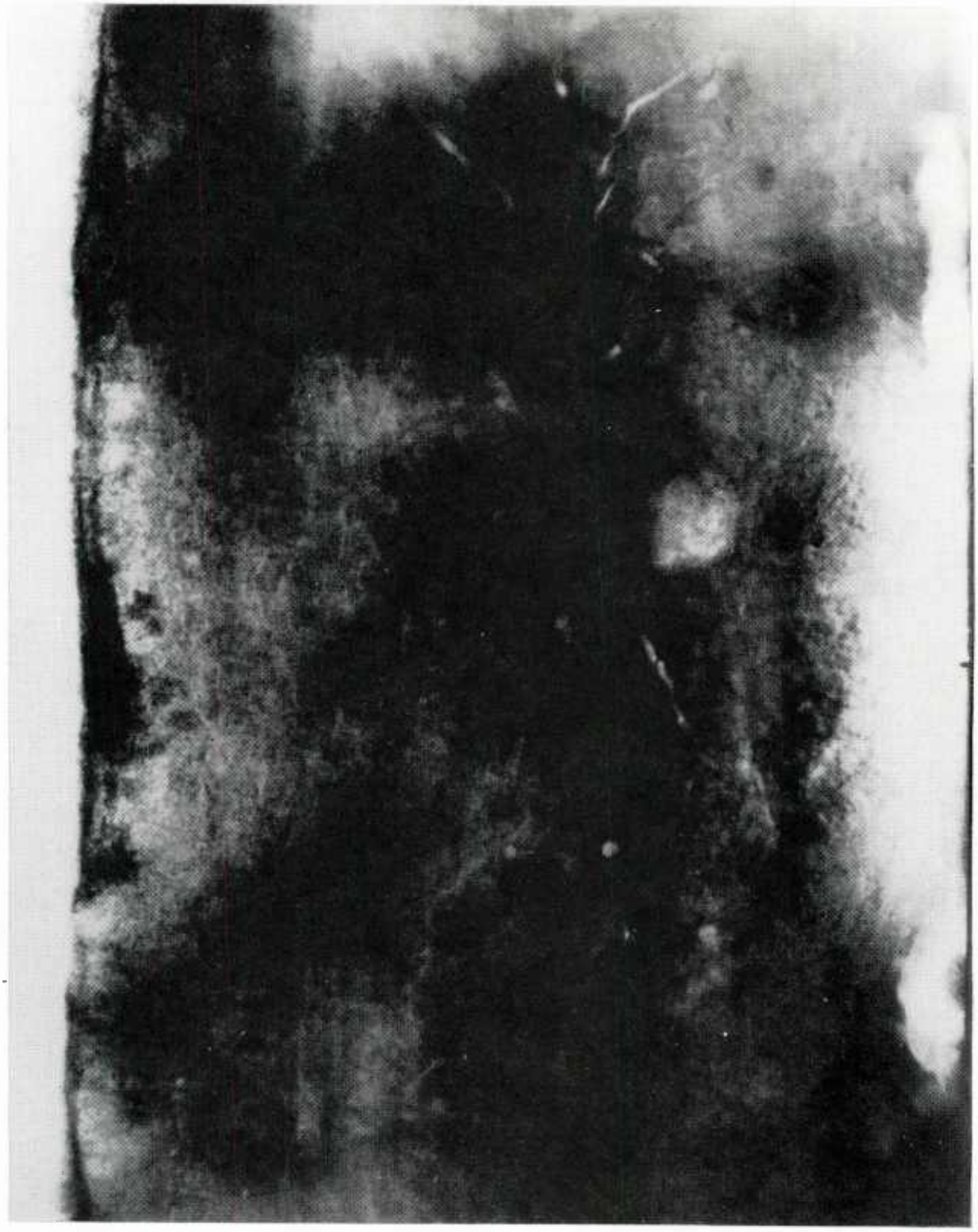
25







32



APPENDIX D
COLOR DESCRIPTIONS OF CORES

Color descriptions are depicted as both Munsell®hue/value/chroma designations and soil color names. The "hue" refers to red, yellow, green, blue, and purple. The "value" refers to lightness. The "chroma" refers to strength (departure from a neutral of the same lightness). All descriptions were derived from subcores except at station 31 where the color was described from a freshly opened box core.

Station	Depth (cm)	Hue/Value/Chroma	Color
23(24)	0 to 3	10YR/6/3	Pale brown
	3 to 15	10YR/6/4	Light yellowish-brown
	15 to 39	10YR/6/3	Pale brown
31	0 to 15	10YR/6/4	Light yellowish-brown
	15 to 30	10YR/6/3	Pale brown
42(10)	0 to 6	10YR/6/4	Light yellowish-brown
	6 to 39	10YR/6/3	Pale brown
43(6)	0 to 6	10YR/6/4	Light yellowish-brown
	6 to 12	10YR/6/3	Pale brown
	12 to 15	10YR/6/4	Light yellowish-brown
	15 to 27	10YR/6/3	Pale brown
44(14)	0 to 3	10YR/5/3	Brown
	3 to 12	10YR/6/4	Light yellowish-brown
	12 to 33	10YR/6/3	Pale brown
48(1)	0 to 10	10YR/4/3	Brown/dark brown
	10 to 11	10YR/4/2	Dark grayish-brown
	11 to 13	10YR/2/2	Very dark brown
	13 to 14	10YR/4/1	Dark gray
48(4)	0 to 8	10YR/4/3	Brown/dark brown
	8 to 12	10YR/4/2	Dark grayish-brown
	12 to 14	10YR/2/2	Very dark brown
		10YR/3/3	Dark brown
		10YR/3/2	Very dark grayish-brown
	14 to 16	10YR/3/3	Dark brown
	16 to 18	10YR/3/1	Very dark gray
	18 to 20	10YR/4/1	Dark gray
	20 to 21.5	10YR/4/1	Dark gray
		10YR/3/1	Very dark gray
	21.5 to 28	10YR/5/1	Gray
	28 to 32	10YR/4/1	Dark gray
	32 to 34	10YR/3/1	Very dark gray
48(9)	32 to 34	10YR/5/1	Gray
		10YR/6/4	Light yellowish-brown
	34 to 36	10YR/4/1	Dark gray
		10YR/3/1	Very dark gray
	36 to 40	10YR/3/1	Very dark gray

Station	Depth (cm)	Hue/Value/Chroma	Color
67(5)	0 to 3	10YR/5/3	Brown
	3 to 6	10YR/4/3	Brown/dark brown
	6 to 9	10YR/3/3	Dark brown
		10YR/3/2	Very dark grayish-brown
	9 to 12	2.5Y/4/2	Dark grayish-brown
	12 to 15	10YR/5/1	Gray
		10YR/6/4	Light yellowish-brown
	15 to 18	2.5Y/3/2	Very dark grayish-brown
		2.5Y/5/2	Dark grayish-brown
	18 to 33	10YR/5/1	Gray
68(4)	0 to 6	10YR/4/3	Brown/dark brown
	6 to 9	10YR/3/3	Dark brown
	9 to 15	10YR/3/3	Dark brown
		5Y/3/1	Very dark gray
	15 to 21	5Y/4/2	Olive gray
	21 to 27	5Y/5/2	Olive gray
	27 to 30	5Y/4/4	Olive
		5Y/5/2	Olive gray
69(7)	0 to 6	10YR/4/3	Brown/dark brown
	6 to 9	10YR/3/3	Dark brown
	9 to 13	10YR/3/3	Dark brown
		10YR/3/2	Very dark grayish-brown
	13 to 16	10YR/5/3	Brown
	16 to 25	5Y/5/1	Gray
70(9)	0 to 6	10YR/4/3	Brown/dark brown
	6 to 9	10YR/4/3	Brown/dark brown
		5Y/4/2	Olive gray
	9 to 16	10YR/4/3	Brown/dark brown
		5Y/3/2	Dark olive gray
	16 to 18	5Y/5/2	Olive gray
	18 to 21	5Y/5/2	Olive gray
		5Y/4/2	Olive gray
71(8)	0 to 6	10YR/5/3	Brown
	6 to 15	10YR/5/3	Brown
		5Y/3/2	Dark olive gray
	15 to 18	5Y/5/2	Olive gray
	18 to 24	5Y/5/2	Olive gray
		5Y/4/3	Olive
74(1)	0 to 6	10YR/4/4	Dark yellowish-brown
	6 to 15	10YR/5/4	Yellowish-brown
		5Y/3/2	Dark olive gray
	15 to 30	5Y/5/2	Olive gray

APPENDIX E
COMPRESSIONAL WAVE VELOCITY PROBE DATA

Compressional wave velocity (V_p, m/sec) as measured by probes inserted into intact box cores is presented. Velocity values are calculated for 20°C.

Station	Depth (cm)	Trial 1	Trial 2	$\overline{V}_p$
22	0	1485.9	--	1485.9
	1	1439.7	1520.2	1480.0
	2	1458.7	1483.4	1471.1
	3	1491.6	1492.5	1492.1
	4	1501.3	1484.3	1492.8
	5	1489.5	1495.3	1492.4
	6	1503.1	1495.5	1499.3
	7	1501.3	1498.0	1499.7
	8	1498.1	1496.3	1497.2
	9	1500.8	1488.2	1494.5
	10	1503.5	1502.6	1503.1
	11	1496.8	1510.9	1503.9
	12	1505.1	1525.5	1515.3
	13	1505.0	1532.3	1518.7
	14	1512.6	1527.7	1520.2
	15	1519.1	1518.1	1518.6
	16	1526.7	1521.4	1524.1
	17	1527.3	1515.9	1521.6
	18	1527.3	1535.0	1531.2
	19	1525.8	1534.0	1529.9
	20	1528.5	1533.8	1531.2
	21	1523.3	1531.2	1527.3
	22	1516.5	1531.0	1523.8
	23	1519.2	1516.4	1517.8
	24	1513.6	1523.1	1518.4
	25	1517.9	1510.7	1514.3
	26	1508.8	1511.6	1510.2
	27	1507.4	1515.3	1511.4
	28	1501.3	1515.3	1508.3
	29	1509.8	1514.0	1511.9
	30	1504.2	1511.6	1507.9
	31	1507.0	1507.4	1507.2
	32	1499.6	1513.2	1506.4
	33	1500.5	1503.8	1502.2
	34	1499.8	1506.4	1503.1
	35	1492.2	1507.5	1499.9
	36	1493.5	1503.1	1498.3
	37	1501.0	--	1501.0

Station	Depth (cm)	Trial 1	Trial 2	Trial 3	Trial 4	$\bar{V}_p$
31	0	--	--	--	--	--
	1	1470.2	1491.6	1467.4	1479.6	1469.7
	2	1450.1	1476.1	1464.2	1439.8	1457.6
	3	1479.3	1486.5	1507.7	1503.9	1494.4
	4	1476.0	1481.2	1490.9	1483.6	1482.9
	5	1484.9	1474.6	1490.3	1470.8	1480.2
	6	1488.1	1482.9	1506.0	1496.7	1493.4
	7	1488.3	1482.0	1496.7	1491.6	1489.7
	8	1486.3	1486.4	1487.4	1486.7	1486.7
	9	1502.7	1492.0	1514.0	1505.1	1503.5
	10	1513.5	1500.0	1493.1	1496.7	1500.8
	11	1520.3	1494.6	1510.1	1501.0	1506.5
	12	1518.5	1508.6	1509.3	1502.2	1509.7
	13	1522.5	1498.4	1523.9	1505.2	1512.5
	14	1522.3	1508.6	1505.6	1533.0	1517.4
	15	1523.0	1499.6	1539.3	1517.9	1520.0
	16	1532.2	1511.5	1527.5	1507.1	1519.6
	17	1534.6	1498.9	1528.9	1524.0	1521.6
	18	1525.8	1494.6	1529.9	1519.7	1517.5
	19	1534.2	1505.2	1531.7	1523.4	1523.6
	20	1522.0	1498.4	1527.8	1520.1	1517.1
	21	1517.8	1508.5	1525.5	1510.0	1515.5
	22	1520.9	1495.6	1530.8	1509.2	1514.1
	23	1520.3	1509.0	1525.0	1518.2	1518.1
	24	1514.6	1509.4	1517.3	1501.3	1510.7
	25	1508.7	1506.3	1508.3	1508.4	1507.9
	26	1513.0	1504.0	1518.2	1508.8	1511.0
	27	1509.3	1505.1	1516.4	1509.8	1510.2
	28	1501.9	1505.7	1506.4	1506.5	1505.1
	29	1502.3	1503.4	1512.6	1509.3	1506.9
	30	1503.6	1500.2	1509.2	1507.9	1505.2
	31	1502.6	1501.6	1498.3	1502.8	1501.3
	32	1512.3	1500.2	1501.0	1510.3	1506.0
	33	1493.5	1498.4	1496.1	1503.9	1498.0
	34	--	1497.5	1506.9	1502.4	1502.3
	35	--	1490.9	--	1501.7	1496.3

Station	Depth (cm)	Trial 1	Trial 2	Trial 3	Trial 4	$\overline{V}_p$
48	0	1514.8	--	--	--	1514.8
	1	1705.7	1575.9	1487.5	1454.8	1556.0
	2	1462.1	1751.4	1515.5	1489.6	1554.7
	3	1479.5	1468.4	1468.8	1477.4	1473.5
	4	1484.3	1483.0	1469.0	1478.5	1478.7
	5	1478.4	1488.1	1477.2	1478.5	1480.6
	6	1481.8	1484.1	1478.4	1479.7	1481.0
	7	1496.3	1488.5	1480.8	1478.2	1486.0
	8	1500.4	1488.8	1480.8	1488.0	1489.5
	9	1490.5	1487.9	1485.7	1480.6	1486.2
	10	1492.0	1491.6	1491.6	1476.0	1487.8
	11	1487.2	1506.2	1493.4	1493.9	1495.2
	12	1507.5	1514.7	1499.1	1515.6	1509.2
	13	1515.8	1502.0	1499.5	1519.4	1509.2
	14	1516.1	1527.6	1501.5	1489.7	1508.7
	15	1517.0	1512.3	1506.1	1499.1	1508.9
	16	1525.7	1513.3	1523.2	1507.5	1517.4
	17	1507.7	1524.8	1536.9	1524.7	1523.5
	18	1501.7	1513.8	1498.7	1515.0	1507.3
	19	1511.2	--	1511.3	1504.7	1509.1
	20	1514.4	--	1511.3	1502.9	1509.5
	21	1528.8	1524.8	1552.1	1506.5	1528.1
	22	1534.6	1551.1	1524.3	1508.1	1529.5
	23	1517.3	1548.7	1520.5	1515.1	1525.4
	24	1526.3	1553.7	1514.8	1568.8	1540.9
	25	--	1545.7	1540.8	1566.2	1550.9
	26	--	--	1527.7	1547.2	1537.5
	27	--	1553.2	1537.3	1613.4	1568.0

Station	Depth (cm)	Trial 1	Trial 2	Trial 3	Trial 4	V_p
82	0	1526.1	1568.5	1504.6	1553.7	1538.2
	1	1496.1	1490.9	1496.9	1450.1	1483.5
	2	1492.8	1513.7	1472.3	1502.4	1495.3
	3	1499.4	1511.4	1481.5	1482.2	1493.6
	4	1506.7	1513.8	1494.8	1484.5	1500.0
	5	1509.3	1514.9	1499.3	1484.2	1501.9
	6	1518.3	1515.9	1492.0	1486.5	1503.2
	7	1516.0	1528.7	1495.1	1492.9	1508.2
	8	1527.4	1525.8	1500.0	1503.1	1514.1
	9	1521.3	1538.7	1508.1	1500.6	1517.2
	10	1532.5	1530.4	1508.5	1504.8	1519.1
	11	1533.3	1526.0	1506.4	1495.0	1515.2
	12	1527.9	1532.4	1510.8	1495.8	1516.7
	13	1531.4	1535.2	1511.5	1492.8	1517.7
	14	1528.2	1532.4	1510.6	1500.7	1518.0
	15	1534.1	1540.9	1512.1	1501.6	1522.2
	16	1544.1	1541.4	1512.9	1507.5	1526.5
	17	1539.9	1544.4	1513.8	1503.8	1525.5
	18	1544.5	1539.4	1510.0	1511.8	1526.4
	19	1540.3	--	1512.9	--	1526.6

APPENDIX F
SEDIMENT SHEAR STRENGTH MEASURED WITH HAND-HELD VANE SHEAR PROBE

Shear strength of sediments (τ_f, g/cm^2) was measured in undisturbed box cores with a 1.89 x 1.89 cm or a 2.54 x 2.54 cm vane. The larger vane was used at stations 23, 28, and 31 only.

Station	Depth (in.)	Depth (cm)	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Trial 6	$\bar{\tau}f$
23	1	2.54	12.43	12.43	12.43	12.43	9.95	14.92	13.77
	2	5.08	24.87	19.89	17.41	29.84	19.89	24.87	22.80
	3	7.62	44.76	54.70	42.27	34.81	49.73	64.65	48.44
	4	10.16	64.65	64.65	64.65	59.68	79.57	79.57	68.80
	5	12.70	94.50	74.60	89.51	77.08	79.57	84.54	83.30
	6	15.24	94.50	89.51	89.51	84.54	94.49	89.51	90.34
	7	17.78	79.57	89.51	89.51	49.57	84.54	89.51	80.37
	8	20.32	79.57	79.57	74.60	69.62	79.57	84.54	77.91
	9	22.86	69.62	69.62	69.62	64.65	79.57	79.57	72.11
	10	25.40	69.62	69.62	74.60	59.68	79.57	74.60	71.28
	11	27.94	59.68	69.62	69.62	62.16	59.68	64.65	64.24
	12	30.48	64.65	59.68	74.60	69.62	59.68	67.14	65.90
	13	33.02	44.76	59.68	44.75	59.68	59.68	59.68	54.71
	14	35.56	47.24	64.65	44.75	57.19	64.65	59.68	56.36
	15	38.10	47.24	44.76	44.75	59.68	59.68	59.68	52.63
	16	40.64	54.70	49.73	47.25	59.68	59.68	59.68	55.12
28	1	2.54	7.5	12.4	12.4	19.9	9.9	9.9	12.0
	2	5.08	24.9	34.8	19.9	24.9	27.4	39.8	28.6
	3	7.62	59.7	67.1	59.7	59.7	52.2	67.1	60.9
	4	10.16	64.6	89.5	77.1	84.5	77.1	92.0	80.8
	5	12.70	94.5	87.0	89.5	97.0	89.5	99.5	92.8
	6	15.24	94.5	99.5	79.6	104.4	89.5	119.4	97.8
	7	17.78	84.6	89.5	84.6	89.5	74.6	104.4	87.9
	8	20.32	84.5	82.1	84.5	94.5	74.6	89.5	85.0
	9	22.86	64.6	69.6	69.6	74.6	74.6	84.5	72.9
	10	25.40	59.7	79.6	74.6	67.1	69.6	69.6	70.0
	11	27.94	59.7	69.6	64.6	67.1	64.7	69.6	65.9
	12	30.48	64.6	49.7	49.7	64.7	59.7	59.7	58.0
	13	33.02	49.7	54.7	64.6	59.7	52.2	49.7	55.1
	14	35.56	49.7	52.2	67.1	49.7	49.7	49.7	53.0
	15	38.10	44.8	42.3	49.7	49.7	67.1	54.7	51.4
	16	40.64	47.2	49.7	54.7	49.7	--	--	50.3

Station	Depth (in.)	Depth (cm)	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Trial 6	$\overline{\tau f}$
31	1	2.54	14.9	14.9	19.9	19.9	19.9	12.4	17.0
	2	5.08	34.8	42.3	24.9	24.9	39.8	24.9	31.9
	3	7.62	64.7	67.1	57.2	44.8	54.7	69.6	59.7
	4	10.16	74.6	84.5	84.5	79.6	84.5	77.1	80.8
	5	12.70	89.5	114.4	94.5	106.9	84.5	89.5	96.6
	6	15.24	99.5	114.4	119.4	104.4	84.5	119.4	106.9
	7	17.78	99.5	99.5	97.0	106.9	99.5	87.0	98.2
	8	20.32	99.5	89.5	84.5	89.5	84.5	84.5	88.7
	9	22.86	79.6	69.6	74.6	67.1	74.6	67.1	72.1
	10	25.40	74.6	64.6	64.6	72.1	67.1	67.1	68.4
	11	27.94	59.7	67.1	72.1	69.6	72.1	64.6	67.5
	12	30.48	59.7	59.7	64.6	67.1	64.6	64.6	63.4
	13	33.02	54.7	54.7	62.2	57.2	39.8	49.7	53.1
	14	35.56	44.8	47.2	54.7	54.7	44.8	64.6	51.8
	15	38.10	42.3	42.3	52.2	52.2	39.8	62.2	48.5
	16	40.64	--	--	39.8	42.2	--	--	41.0
48	1	2.54	2.5	2.5	2.5	2.5	5.0	--	3.0
	2	5.08	12.4	--	14.9	12.4	10.9	--	12.7
	3	7.62	14.9	29.8	24.9	29.8	39.8	--	27.8
	4	10.16	47.2	59.7	49.7	64.6	104.4	--	65.1
	5	12.70	94.5	223.8	149.2	198.9	248.7	--	183.0
	6	15.24	159.1	124.3	149.2	134.3	119.4	--	137.3
	7	17.78	74.6	49.7	49.7	34.8	29.8	--	47.7
	8	20.32	34.8	19.9	24.9	14.9	29.9	--	24.9
	9	22.86	17.4	19.9	39.8	12.4	29.9	--	23.9
	10	25.40	14.9	19.9	19.9	34.8	39.8	--	25.9
	11	27.91	24.9	29.8	24.9	24.9	34.8	--	27.9
	12	30.48	22.4	29.8	29.8	39.8	39.8	--	32.3
	13	33.02	34.8	39.8	44.8	134.3	159.1	--	82.6
	14	35.56	94.5	104.4	159.1	124.3	134.3	--	123.3
	15	38.10	149.2	129.3	99.5	59.7	79.6	--	103.5
	16	40.64	--	--	--	54.7	69.6	--	62.2

Station	Depth (in.)	Depth (cm)	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Trial 6	$\bar{T}f$
55	1	2.54	4.9	12.4	4.9	4.9	4.9	4.9	6.2
	2	5.08	14.9	17.4	19.9	14.9	9.9	14.9	15.3
	3	7.62	29.8	34.8	34.8	29.8	29.8	44.8	34.0
	4	10.16	49.7	69.6	59.7	49.7	69.6	69.6	61.3
	5	12.70	169.1	159.1	134.3	149.2	119.4	134.3	144.2
	6	15.24	134.3	149.2	119.4	124.3	114.4	134.3	129.3
	7	17.78	34.8	24.9	17.4	29.8	--	--	26.7
	8	20.32	24.9	24.9	19.9	29.8	--	--	24.9
	9	22.86	19.9	14.9	14.9	19.9	--	--	17.4
	10	25.40	29.8	19.9	19.9	24.9	--	--	23.6
	11	27.91	29.8	19.9	29.9	29.9	--	--	27.4
	12	30.48	29.9	24.9	24.9	24.9	--	--	26.2
	13	33.02	44.8	34.8	29.9	39.8	--	--	37.8
	14	35.56	134.3	104.4	49.7	104.4	--	--	98.2
	15	38.10	238.7	208.5	268.5	208.9	--	--	231.2
	16	40.64	69.6	--	54.7	59.7	--	--	61.3
74	1	2.54	29.8	14.9	14.9	14.9	14.9	14.9	17.4
	2	5.08	44.8	44.8	44.8	49.7	34.8	29.8	41.5
	3	7.62	74.6	64.6	74.6	89.5	64.6	54.7	70.4
	4	10.16	94.5	104.4	104.4	114.4	84.5	84.5	97.8
	5	12.70	119.4	129.3	109.4	124.3	119.4	94.5	116.1
	6	15.24	149.2	149.2	129.3	208.9	134.3	129.3	150.0
	7	17.78	179.0	263.6	218.8	179.0	258.6	169.1	211.4
	8	20.32	198.9	253.6	198.9	218.8	303.4	238.7	235.4
	9	22.86	184.0	248.7	218.8	263.6	238.7	228.8	230.4
	10	25.40	218.8	238.7	218.8	308.3	293.4	189.0	244.5
	11	27.91	273.5	248.7	189.0	288.4	258.6	189.0	241.2
	12	30.48	243.7	228.8	198.9	228.8	238.7	238.7	229.6

Station	Depth (in.)	Depth (cm)	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Trial 6	$\bar{\tau}f$
80	1	2.54	14.9	14.9	14.9	9.9	14.9	14.9	14.1
	2	5.08	44.8	29.8	24.8	29.8	29.8	29.8	31.5
	3	7.62	54.7	54.7	34.8	49.7	49.7	54.7	49.7
	4	10.16	49.7	44.8	64.7	84.5	44.8	64.7	58.9
	5	12.70	69.6	84.5	99.5	119.4	59.7	74.6	84.6
	6	15.24	79.6	89.5	109.4	129.3	84.5	99.5	98.6
	7	17.78	129.3	129.3	129.3	149.2	94.5	119.4	125.2
	8	20.32	174.0	208.9	169.1	218.8	169.1	134.3	179.0
	9	22.86	179.0	129.3	228.8	228.8	198.9	184.0	191.5
	10	25.40	179.0	233.7	248.7	174.1	208.9	248.7	215.5
	11	27.91	169.1	223.8	248.7	248.7	203.9	189.0	213.9
	12	30.48	198.9	119.4	189.0	189.0	169.1	218.8	180.7
82	1	2.54	9.9	9.9	9.9	14.9	14.9	19.8	13.2
	2	5.08	19.9	29.8	24.9	29.8	34.8	34.8	29.0
	3	7.62	29.8	44.8	44.8	49.7	54.7	59.7	47.3
	4	10.16	54.7	54.7	39.8	74.6	79.6	94.5	66.3
	5	12.70	99.5	79.6	79.6	74.6	104.4	109.4	91.2
	6	15.24	114.4	119.4	129.3	99.5	114.4	144.2	120.2
	7	17.78	139.2	139.2	149.2	144.2	149.2	164.1	147.5
	8	20.32	208.9	174.1	238.7	253.6	313.3	268.5	242.9
	9	22.86	213.8	238.7	293.4	273.5	268.5	303.4	265.2
	10	25.40	233.7	288.4	218.8	238.7	233.7	198.9	235.4
	11	27.94	261.5	238.7	218.8	293.4	268.5	288.4	261.6
	12	30.48	223.8	149.2	348.1	273.5	198.9	308.3	250.3
	13	33.02	174.1	193.9	193.9	198.9	203.9	179.0	190.6
	14	35.56	--	--	318.3	179.0	174.1	248.6	230.0